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This publication provides guidance to prospects, applicants, students, faculty and staff.

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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 Regulations

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Regulations 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 Categories of Students

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Categories of Students 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.

1.1.2.1 Full-Time Students

Full-time students are students with a registration status of full-time and paying full-time fees. Full-time non-thesis master's, diploma, and certificate candidates must show a minimum of 12 credits per term on their record.

1.1.2.2 Half-Time Students (Thesis Programs)

In some departments, students are permitted to proceed toward a degree on a half-time basis, i.e., students are permitted to register half-time instead of full-time during sessions of residence.

It is expected that half-time students will spend 50% of their time in the department participating in coursework, seminars, discussions, etc., with staff and full-time students. Half-time students are reminded that they must complete the degree within the time limitation imposed by Graduate and Postdoctoral Studies, and that if they choose to be half-time they must: a) be so for an even number of half-time terms (i.e., two half-time terms equal one full-time term) and b) fulfill the minimum residence requirement in their program.

1.1.2.3 Part-Time Students

Certain degree programs can be followed on a part-time basis (e.g., M.Ed., M.Eng. Non-Thesis option, M.B.A., M.S.W. Non-Thesis option, and S.T.M.). Students in non-thesis programs (including the C.A. program) as well as Special, Visiting and Qualifying, Certificate and Diploma students, not taking at least 12 credits per term, are considered to be part-time. Students may, in some departments, proceed toward the degree on a part-time basis.

Part-time students are reminded that they must complete the degree within the time limitation imposed by Graduate and Postdoctoral Studies.

In cases of part-time and transfer students, all coursework might not be completed during the residency. It must therefore be completed during one or more additional terms (Non-Thesis Extension). Fees are charged accordingly.

1.1.2.4 Additional Session (Thesis Programs) and Non-Thesis Extension (Non-Thesis Programs) Students

Students in Additional Session or Non-Thesis Extension are students with a registration status of Additional Session (thesis programs) or Non-Thesis Extension (non-thesis programs) and paying fees accordingly. The following are such students:

1. Graduate students who have completed the residency requirements in a master’s program.
2. Graduate students who have completed 8 full-time semesters in a doctoral program (when admitted to Ph.D. 1).
3. Graduate students who have completed 6 full-time semesters in a doctoral program (when admitted to Ph.D. 2).

In the doctoral program, students must be registered on a full-time basis for one more year after completion of the residency (i.e., Ph.D. 4 year) before continuing as Additional Session students until completion of the program. It is expected that, at this stage, all the coursework and comprehensive examinations will have been completed and the student will be engaged in thesis preparation.
Graduate students in non-thesis programs, graduate diplomas and certificates who have registered for all required courses but have not completed the work and/or have completed the residency requirements must register as Non-Thesis Extension students and pay fees accordingly. For example, a student who has registered for a last course such as a project but has not completed it, must register as Non-Thesis Extension status until graduation. Students in a Non-Thesis Extension session who are not registered for at least 12 credits per term, are not considered engaged in full-time studies.

1.1.2.5 Thesis Evaluation Students

Students who have completed the residency requirements for their graduate thesis program and who have submitted their initial e-thesis to Graduate and Postdoctoral Studies by the April 15, August 15, or December 15 initial e-thesis submission deadlines must register on Minerva in order for their registration status to be updated to “Thesis Evaluation”. All students are required to stay registered and pay the associated fees up until the term of graduation. The registration status will be updated to “Thesis Evaluation” for all subsequent terms until the term of the final e-thesis submission. Students in thesis programs whose initial e-thesis and final e-thesis submissions are in the same term will not require a “Thesis Evaluation” status.

“Thesis Evaluation” students are considered to be:

- registered at the University in a full-time status;
- eligible for University services;
- eligible for funding;
- eligible for a T2202 tax slip crediting the months for which they are registered and any ancillary fees charged.

If you are in “Thesis Evaluation” status, you are not permitted to register for courses. Students who still need to take courses to fulfill the program requirements after submitting their initial e-thesis will remain registered in additional session status and pay associated fees.

1.1.2.6 Qualifying Students

Students admitted to a Qualifying program are known as Qualifying Students for a Master’s. They must meet the application and admission requirements indicated by the chosen graduate department and the Graduate Admissions Unit of Enrolment Services. The courses taken during a Qualifying year will not be credited toward a degree program. Students are registered in graduate studies but have not yet been admitted to a degree program. These students take a full load (12 credits minimum) per semester of undergraduate courses as specified by the department. Only one Qualifying year is permitted.

1.1.2.7 Special Students

Students who meet the minimum entrance requirements of Graduate and Postdoctoral Studies and wish to take one, or at most two, graduate-level courses per term (6 credits) without intention of proceeding to a degree or diploma are termed Special Students. After completion of a maximum of 12 credits, an applicant may not continue as a Special Student.

If graduate Special Students subsequently become candidates for higher degrees, they may receive academic credit for relevant graduate courses taken as Special Students. They must apply every year.

Students who wish to take undergraduate courses only must apply as Special Students in the undergraduate faculty concerned, even if they already hold degrees.

1.1.2.8 Visiting Students

Visiting Students are those students who are registered in a degree program at another university and who have obtained written permission from both universities to take a course(s) for credit toward that degree program. Students studying in the province of Quebec who are in this category are eligible for a transfer of credit if the required permission is obtained on Quebec Inter-University Transfer forms. These forms are available online at www.mcgill.ca/students/iut. McGill students registering for courses required for their degree program at other Quebec universities are required to pay for the course(s) at the home university. McGill University and Université de Montréal participate in an exchange (graduate) with the University of British Columbia and the University of Toronto.

As a rule, graduate students should not register for courses through Inter-University Transfers (IUT) during the last semester before graduation. There are considerable delays in receiving official transcripts which delay the degree audit process and graduation. If special departmental permission is given for such a course to be taken in the last semester, there will be no extension given for the grade submission deadline.

1.1.2.9 Graduate Research Trainee

Eligibility

If you are enrolled in a graduate program at another university and would like to attend McGill for a limited period of time (up to 12 months*) to conduct research only, you must apply as a Graduate Research Trainee. Research trainees are not permitted to register for courses. This category of registration is for students registered in graduate programs in other universities to conduct PART of their thesis research at McGill under the supervision of a McGill professor. The purpose of the training period at McGill must be described. Acceptable reasons include: the student is engaged in collaborative projects between professor(s) at McGill and the student's sponsoring institution; the student wishes to take advantage of specific expertise, academic resources, or technical capabilities at McGill to enhance the thesis research being conducted at the sponsoring institution; the student is spending a stage at McGill under a specific Memorandum of Understanding between McGill and the sponsoring institution; the student's thesis supervisor has relocated to McGill, but the student remains registered at the former institution to complete his/her graduate degree. The category of Graduate Research Trainee cannot be used to conduct the majority of thesis research at McGill under the supervision of a McGill professor.

* Extensions beyond 12 months are not granted.

Conditions
Students applying to be a Graduate Research Trainee:

- must be registered in a graduate degree program at another university;
- must have permission from the sponsoring institution and include a letter of permission with the application;
- must have the approval of a McGill professor and graduate program to supervise the research;
- may apply for a start date throughout the academic year, but for administrative reasons, must reapply at the beginning of the formal academic year (for Fall term admission) if remaining at McGill; for example, if you begin a 12-month visit in January, you must reapply for the Fall term (September). A trainee may spend up to a maximum of 12 months at McGill, but the time does not have to be consecutive. The trainee can apply for multiple stages over a period of time that does not exceed 12 months.
- must include copies of transcripts as part of the application package;
- must demonstrate adequate proficiency in English to function in the University environment, including any required safety training and understanding of policies and procedures. Assessment of written and verbal language skills is the responsibility of the supervising professor;
- are not charged fees for any term of registration including Summer;
- are not charged any Student Services or Ancillary fees and thus do not have access to these services (including health insurance). Membership to athletics services may be purchased. Graduate Research Trainees do have access to McGill libraries, email, and required training in research ethics and safety;
- must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage.

To submit an application refer to: [www.mcgill.ca/gps/students/graduate-research-trainee](http://www.mcgill.ca/gps/students/graduate-research-trainee).

1.1.2.10 Non-Resident Exchange Status

The status of non-resident is only applicable to students participating in a formal exchange program, in which McGill has signed an exchange agreement with a partner institution. The student must register and will be charged full-time tuition including other student-related fees at McGill.

1.1.2.11 Medical Residents

Residents and fellows on staff of teaching hospitals associated with the University are included in Graduate and Postdoctoral Studies statistics. In the event that residents and fellows wish to take courses at the graduate level, they must apply for admission to be Special Students or for admission to a degree program, a graduate diploma, or certificate.

1.1.2.12 McGill Staff as Graduate Students

Members of the teaching staff of the University up to and including the rank of lecturer may enrol as candidates for a degree, diploma or certificate. If their teaching duties are designated as full-time, they may only enrol as half-time students.

Professorial members of the academic staff may not enrol in graduate degree and diploma programs. This rule shall apply also to any persons who have been on the professorial staff within the previous 12 months, unless they resign completely from their positions at McGill.

Should persons registered in graduate studies be promoted to professorial rank, they may no longer remain graduate students, unless they resign or are granted a leave of absence from their professorial appointments.

In certain exceptional cases, professorial members of the academic staff may apply to a graduate program in academic units other than their own. Enrolment Services may grant permission if it is satisfied that the applicant's teaching unit and proposed unit for graduate study are sufficiently remote that conflict of interest situations will not arise. Permission must be granted before any courses are taken toward the proposed degree.

1.1.2.13 Quebec Inter-University Transfer Agreement

1.1.2.13.1 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. Your combined registration may not, however, exceed the total number of credits you are permitted to complete in a given term. 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/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.

Note for Engineering: For most programs, courses that can be taken through the IUT agreement are restricted to specific course categories. For details, please see www.mcgill.ca/engineering/students/exchanges-study-away/study-away.

Note for Nursing: You must obtain the Ingram School of Nursing's permission to register at another Quebec university for three, or in some cases six, credits per term in addition to your registration at McGill. These courses, subject to the Ingram School of Nursing's 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 (i.e., courses taken at McGill) requirement of 60 credits at McGill in order to qualify for a McGill degree (you should check with the Ingram School of Nursing). This privilege will be granted if there are valid academic reasons. If you want to take advantage of this agreement, please see www.mcgill.ca/students/iut for information and application procedures. The final grades earned at the host university must meet the minimum requirements as set by the Ingram School of Nursing, i.e., a letter grade of 'C'.

Note for Physical and Occupational Therapy: The final grades earned at the host university must meet the minimum requirements as set by the Physical Therapy or Occupational Therapy programs.

1.1.2.14 Quebec Inter-University Transfer Agreement: Visiting IUT Students

Note for Health Sciences: This section applies only to the Ingram School of Nursing.

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/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.

Note for Continuing Studies: If you are a Visiting IUT Student and your application has been approved, you must register in-person, by appointment only (see University Regulations & Resources > Continuing Studies > Registration for Continuing Studies Students > Other Ways to Register > : In-Person Registration).

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

1.1.3 Registration

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Registration 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.
1.1.3.1 Registration for Fall and Winter Terms (Including Additional Session and Non-Thesis Extension Students)

All returning and new graduate students must register online at www.mcgill.ca/minerva. It is the student's responsibility to obtain departmental approval before registering on Minerva.

Courses may be added until the end of the course change period without penalty.

Returning Students:
Returning students register via Minerva between April 4, 2018 and August 14, 2018.

Newly-Admitted Students:

Note: If you fail to register during the normal registration period, you can register within the period designated by the University for late registration. You will, however, be charged a late registration fee. To avoid the late registration fee, students must access Minerva and register for REGN RCGR (the Registration Confirmation course) in both the Fall (CRN 2334) and Winter (CRN 2262) terms. New students entering in January 2019 only need to register for REGN RCGR in the Winter (CRN 2262) term.

Successful completion of registration is contingent upon acceptable academic standing in the previous session and payment of any previous outstanding fees and fines.

Students must register (and pay fees) annually up to and including the term of graduation. Outstanding tuition fees must be paid before graduation. A graduate student registered in the Winter term who graduates in February will have their Winter registration and fees cancelled at the end of February.

1.1.3.2 Fee Policies Related to Registration

Refer to University Regulations & Resources > Graduate > section 1.8: Fees; particular attention should be paid to section 1.8.8: Fees and Withdrawal from the University and section 1.8.9.1: Overdue Accounts.

1.1.3.3 Summer Registration

Detailed summer registration information will be available in the middle of March in individual departments and at www.mcgill.ca/gps/students/registration/dates.

Course Registration

Students taking summer courses register within Graduate and Postdoctoral Studies deadlines on Minerva (www.mcgill.ca/minerva).

Summer Term of Residence

Students in thesis programs who wish to register for a Summer term to count as part of their residence requirements must advise their department in March and complete the appropriate Summer Registration Form in April. Newly admitted students beginning their graduate thesis program in a Summer Term of Residence can get a 100% refund (less $200 minimum or registration deposit if applicable) up to and including the May 15 withdrawal date. Students in thesis programs, who are continuing in their programs at the end of the Winter term, are expected to devote the summer to research and are considered “Continuing Students.”

1.1.3.4 Courses Taken in the School of Continuing Studies

In the Fall and Winter terms, students may add credit courses (500 level or higher) offered through the School of Continuing Studies (SCS) directly on Minerva. Please see www.mcgill.ca/importantdates for deadlines.

Non-credit general interest or languages courses cannot be added directly by the student. Students may register for these courses in person at the SCS, where the course(s) will be added to their record as “Extra” to their program and course fees will be charged.

1.1.3.5 Courses Taken as Extra to a Program

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 cannot be added to your record after the Course Change add/drop deadline. With the exception of those who are eligible for a Graphos tuition sponsorship (see below), you will be responsible for any tuition fees associated with an "extra" course.

1.1.3.5.1 Graphos Scholarly Communication Courses

The McGill Writing Centre (www.mcgill.ca/mwc) offers several 1-credit courses in scholarly communication. Most of these courses form part of the Graphos program for graduate students and postdoctoral fellows. Graphos courses cannot be counted toward the requirements of a graduate program (the sole exception being the non-thesis Master's program in Second Language Education, toward which only CESL 641, CEAP 642, CEAP 661, and CEAP 665 may be counted).

Notes:

• Thanks to a sponsorship program, nearly all doctoral students and most master's students can take Graphos courses at no extra cost, provided that they complete the course.
All Graphos courses are pass/fail. Since Graphos courses finish before the end of the full term, the standard add/drop and withdrawal dates are much earlier than the dates for courses that run for the full term. Before registering, please consult the Graphos website for further details.

1.1.3.5.2 List of McGill Writing Centre/Graphos Courses

- CESL 500 – ESL: Research Essay and Rhetoric (Note: This course is not part of the Graphos program.)
- CESL 631 – Strategies for Academic Communication in English
- CESL 641 – Fundamentals of Academic Writing in English
- CESL 651 – Pronunciation for Effective Communication
- CEAP 642 – Cornerstones of Academic Writing
- CEAP 652 – Fundamentals of Academic Presentations
- CEAP 661 – Literature Review 1: Summary and Critique
- CEAP 665 – Literature Review 2: Establishing Scholarly Niches
- CEAP 671 – Selected Topics in Communication 1
- CEAP 672 – Selected Topics in Communication 2

The Redpath Museum also offers courses on scientific and research writing open to graduate students. For course availability and other information, please consult the Redpath Museum website.

1.1.3.5.3 List of Redpath Museum Writing Courses

- REDM 610 – Writing Science Articles 1
- REDM 710 – Writing Science Articles 2

1.1.3.6 Registration for Two Degree Programs Concurrently

No student may register in two degree programs or in two departments or faculties or two institutions concurrently without special permission granted by the Graduate Admissions Committee (composed of the Dean and Associate Deans of Graduate and Postdoctoral Studies) and in consultation with the Graduate Admissions Unit of Enrolment Services. Students are advised that permission is never granted to attempt two full-time programs concurrently. Letters of recommendation, including details of the proportions of time that the student intends to allot to each program, must be received from the Chair of each department concerned. Each year, a progress report must be submitted from the two departments concerned to the Graduate Admissions Committee c/o the Graduate Admissions Unit of Enrolment Services before a student in this category will be permitted to register.

1.1.3.7 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/fee. Returning Students: You may register late via Minerva from Wednesday, August 15 until and including Tuesday, September 18, 2018.

New and Readmitted Students (Fall): You may register late via Minerva from Wednesday, August 15 until Tuesday, September 18, 2018.

New and Readmitted Students (Winter): You may register late via Minerva from Tuesday, January 8 until Tuesday, January 22, 2019.

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.

1.1.3.8 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 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 exceptionally only with written permission of the instructor and your department, and the approval of Enrolment Services. A fee will be charged for each course you add.

1.1.3.9 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.
1.1.3.9.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 25, 2018

Deadlines for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, October 30, 2018
- Multi-term courses that begin in Fall term: Tuesday, January 22, 2019

1.1.3.9.2 Courses that Begin in the Winter Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, January 29, 2019

Deadline for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, March 12, 2019
- Multi-term courses that begin in Winter term: Wednesday, May 15, 2019*

* 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 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 1.8.8: Fees and Withdrawal from the University.

5. Withdrawing from one or more courses during the semester may—where applicable—affect your government aid and/or McGill's Work Study Program eligibility. For international students, it may also impact your immigration status and/or permission to work in Canada. Please ensure that you are aware of any consequences related to the course withdrawal request; consult with the Scholarships & Student Aid Office, International Student Services, and/or your Faculty Student Affairs Office, where relevant.

Note for the School of Human Nutrition: Intensive internship courses, like Professional Practice (Stage) in Dietetics, may have different start dates and withdrawal dates than other courses. Students should consult the course outline.

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.

Note for the Faculty of Law: Law students are encouraged to meet with a student adviser before withdrawing from a course (no refund).

Note for Graduate and Postdoctoral Studies: To add/drop/withdraw a course after the deadline has passed, students must submit a Course Change Request form available at Student Records Forms to their department. If the department supports the request, the department will forward the request to the Management of Academic Records Office, Enrolment Services, along with the recommendation from the department Graduate Program Director (GPD).

Graduate students who wish to withdraw from McGill should consult section 1.1.5: University Withdrawal, and submit a "Request for a University Withdrawal" form available at Student Records Forms. Please note that this form is sent to the Management of Academic Records Office, Enrolment Services.

Note for Health Sciences: Withdrawal (W) deadline dates are listed at www.mcgill.ca/importantdates. The health profession programs described in this eCalendar are highly structured and students should consult their adviser or Student Affairs Office to determine what course changes, if any, are allowed. Note 1 below is not applicable to Medicine, Dentistry, and Nursing. For information, you should refer to your Faculty/School section in this publication.
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 the Schulich School of Music’s Undergraduate section.

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 (see deadlines above). 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 1.8.8: Fees and Withdrawal from the University.

**Note for Nursing:** To withdraw from any courses after the withdrawal (without refund) deadline, you need to obtain permission from your Program Director. To do so, submit a formal request by email to your Nursing Faculty Student Affairs Office along with proper documentation to support this request.

**Note for Physical and Occupational Therapy:** The Physical Therapy and Occupational Therapy programs are highly structured and students must receive the approval of the Program Director to determine what course changes, if any, are allowed. Students can consult the Student Affairs Office for information on policies and procedures.

If you are blocked from withdrawing from a required course on Minerva, and have permission to do so, you must contact the Student Affairs Office, who will provide you with the proper forms.

### 1.1.3.10 Withdrawal from a Degree Program

Departments have the right to ask students to withdraw from the program if progress is not satisfactory, or if they have failed two courses required for their program, or for lack of performance in research. Please see section 1.2.2: Failure Policy.

Any student who withdraws from the University must complete a Request for a University Withdrawal form available at [www.mcgill.ca/student-records/forms](http://www.mcgill.ca/student-records/forms). Fees will then be refunded according to the conditions outlined in section 1.1.3.8: Course Change Period and in section 1.1.3.9: Course Withdrawal.

### 1.1.4 Course Information and Regulations

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](http://www.mcgill.ca/students/courses) for the most up-to-date information on courses to be offered.

Not all courses listed are offered every year.

**Note for Graduate Studies:** Students are advised to also refer to [University Regulations & Resources > Graduate > Regulations](http://www.mcgill.ca/importantdates/key-dates) > section 1.1.3: Registration and section 1.1.8: Student Records.

**Note for Health Sciences:** For information, you should refer to your Faculty/School section in this publication.

**Note for Summer Studies:** Refer to [Student Types and Registration Procedures](http://www.mcgill.ca/importantdates/key-dates) and [Student Records](http://www.mcgill.ca/importantdates/key-dates) for further information.

### 1.1.4.1 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 in the schedule have not caused conflicts in your schedule.

Once you have selected some courses from the Class Schedule, try [Visual Schedule Builder (VSB)](http://www.mcgill.ca/importantdates/key-dates) (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.

Please note that the last day of classes in a term varies according to a course's schedule pattern (e.g., Mon-Wed-Fri, Tues-Thurs, Monday only, etc.). You may verify these details at [www.mcgill.ca/importantdates/key-dates](http://www.mcgill.ca/importantdates/key-dates).
Note for Health Sciences: For information, you should refer to your Faculty/School section in this publication.

Note for Medicine: This section is not applicable to M.D., C.M. students; see www.mcgill.ca/ugme.

1.1.4.2 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/student-records/transcripts/key in the section Cross-walk of current subject codes to pre-2002 course numbers.

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.

1.1.4.3 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 that 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 are equivalent in all modes; the only difference is the scheduling. Students cannot obtain credit for more than one version of the same course.

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 in the same section of the Winter term D2 portion. No credit will be given unless the same section of both components (D1 and D2) are successfully completed in consecutive terms, e.g., Fall 2017 and Winter 2018.

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 the same section of 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 the same section of 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 the case of Fall/Winter D1/D2 courses, attempting to change section in Winter may result in an inadvertent withdrawal (W) from the D1 course, and reinstatement in the D1/D2 course will result in administrative fees being charged to the student.

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 partial credit is given, i.e., for completing only one component of a D1/D2 or N1/N2 course, or one to two components of a J1/J2/J3 course.

1.1.4.4 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 University Regulations & Resources > Undergraduate > Student Records > Credit System.

1.1.4.4.1 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 fulfillment 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.

1.1.4.5 Auditing of Courses

McGill does not permit auditing of courses.

Note for Continuing Studies: You can register for a Continuing Studies course and opt to have it "non-evaluated."

1.1.5 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.

1.1.5.1 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.

Note for Graduate and Postdoctoral Studies: The date the request for withdrawal is submitted is the official date of withdrawal. Students who do not register in a given term are subject to University withdrawal. If they wish to return to complete their program in a later term, they must submit a Request for Readmission.

Note for Physical and Occupational Therapy: If you are blocked from withdrawing from course(s) in Minerva, you must contact the Student Affairs Office, who will provide you with the proper forms.

1.1.5.2 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 all of your courses between September 1 and the Fall add/drop deadline, or between January 1 and the Winter add/drop deadline, you are withdrawn from the University. If you withdraw from all of your courses by the Fall or Winter withdrawal deadlines you are withdrawn from the University.

To withdraw from the University by the deadlines indicated below, you must drop or withdraw from all courses on Minerva.

To return to your studies, you must follow the procedures for readmission. For more information, refer to University Regulations & Resources > Undergraduate > Registration > Readmission.

1.1.5.2.1 Fall Term

From September 1 to September 18, 2018 a drop of all courses constitutes a University withdrawal with refund (minus $200 for returning students and the registration deposit for new students). After September 18 and until the deadlines indicated below, you may withdraw from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus $200 for returning students and the registration deposit for new students): Tuesday, September 25, 2018
- Deadline for University withdrawal without refund: Tuesday, October 30, 2018

1.1.5.2.2 Winter Term

From January 1 to January 22, 2019 a drop of all courses constitutes a University withdrawal with refund (minus $200 for returning students and the registration deposit for new students). After January 23 and until the deadlines indicated below, you may withdraw from all courses to effect a University withdrawal.
Deadline for University withdrawal with refund (minus $200 for returning students and the registration deposit for new students): Tuesday, January 29, 2019

Deadline for University withdrawal without refund: Tuesday, March 12, 2019

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.

Note for Graduate and Postdoctoral Studies: A Withdrawal Form is required by the withdrawal deadlines and is available at www.mcgill.ca/student-records/forms. Students who do not register in a given term will be withdrawn as of September 1 (Fall term), January 1 (Winter term), or May 1 (Summer Term).

Note for Health Sciences: For information on readmission procedures, you should refer to your Faculty/School section in this publication.

1.1.5.3 Consequences of University Withdrawal

Any applicable fee refunds for the term of withdrawal will be according to section 1.8.8: Fees and Withdrawal from the University.

Once you withdraw, you must return your ID card to the University as stated in section 1.1.11.1: 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 & Resources > Undergraduate > Registration > 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/undergraduate/admissions.

1.1.6 Summer Studies

Detailed information about summer registration is available as of March at www.mcgill.ca/gps/students/registration/dates.

Graduate courses are available in some subject areas during the summer and the Class Schedule, available at www.mcgill.ca/students/courses, should be consulted for a complete listing of undergraduate and graduate-level courses.

Students doing graduate work in Education are strongly advised to enrol in summer studies, as many programs can only be completed by participation in summer studies.

Course registration for graduate students takes place via Minerva for the Summer term. It is the responsibility of the student to register for courses within deadlines, after obtaining departmental approval.

Students in thesis programs, who pay fees on a per term basis and who have already paid full-time tuition fees during the preceding year are not required to pay for required courses taken in the summer. If you are registered in a thesis program in Additional Session status, you will be charged Additional Session fees in the Summer term. Students in non-thesis programs will be charged fees for courses taken in the summer. Registration for “summer studies” should not be confused with summer registration in a graduate program. For more information, see section 1.1.3.3: Summer Registration.

Many summer courses have limited enrolment and students are advised to register for such courses as early as possible. Graduate students intending to register for restricted undergraduate courses must complete a Request for Registration/Course Changes web form available at www.mcgill.ca/student-records/forms, and the course will be added by Enrolment Services if there is space available.

Please consult the Class Schedule for specific information on course dates and times, available at www.mcgill.ca/students/courses.
1.1.7 Program Requirements

1.1.7.1 Master's Degrees

Residence Requirements – Master's Degrees

Refers to the number of terms (or years) students must be registered on a full-time basis to complete their program. Students are NOT permitted to graduate until they have fulfilled the residence requirement (or paid the corresponding fees) in their program.

- The following master's programs have a minimum residence requirement of three full-time terms: M.Arch., M.A., M.Eng., LL.M., M.Mus. \(\text{(except M.Mus. in Sound Recording)}\), M.Sc., M.S.W., M.Sc.A. \(\text{(except M.Sc.A. in Communication Sciences and Disorders)}\).
- The following master's programs have a minimum residence requirement of four full-time terms: M.I.St.; M.Mus. in Sound Recording; M.U.P.; M.A. (60 credits – Counselling Psychology – thesis; 78 credits – Educational Psychology); M.A. Teaching and Learning – Non-Thesis; M.Sc.A. in Communication Sciences and Disorders; S.T.M., Religious Studies.

- The residence requirement for the master's program in Education (M.Ed.); Information Studies (M.I.St.); Management (M.B.A.); Religious Studies (S.T.M.); M.A. Counselling Psychology – Non-Thesis; M.A. Teaching and Learning – Non-Thesis; M.Sc. in Public Health – Non-Thesis; M.Sc.A. Nursing; M.Sc.A. Occupational Therapy; M.Sc.A. Physical Therapy; and students in part-time programs is determined on a per course basis. Residence requirements are fulfilled when students complete all course requirements in their respective programs.

- For master's programs structured as Course, Project, or Non-Thesis options where the program is pursued on a part-time basis, residence requirements are normally fulfilled when students complete all course requirements in their respective programs (minimum 45 credits or a minimum of three full-time terms) and pay the fees accordingly.

These designated periods of residence represent minimum time requirements. There is no guarantee that the work for the degree can be completed in this time. Students must register for such additional terms as are needed to complete the program.

Coursework – Master's Degrees

Program requirements are outlined in the relevant departmental sections of the Graduate and Postdoctoral Studies eCalendar.

The minimum credit requirement for any thesis or non-thesis master’s degree at McGill is 45 credits. Non-thesis degrees normally specify the course program which the candidate must follow.

The department concerned will examine the student's previous training and then decide which of the available courses in the area of specialization or related fields are required to bring the candidate to the proper level for the master's degree. Due account will be taken of relevant graduate level courses passed at any recognized university or at McGill.

The candidate is required to pass, with a grade of B- or better, all those courses that have been designated by the department as forming a part of the program, including additional requirements.

Students taking courses at another university must obtain a minimum grade of B- (65%) if the course is to be credited toward their McGill degree. In the cases where only a letter grade is used, a B- is the minimum passing grade and no equivalent percentage will be considered. In the cases where only a percentage grade is used, 65% is the minimum passing grade.

As a rule, no more than one-third of the formal coursework (excluding thesis, project, stage, or internship) of a McGill master's degree can be credited with courses from another university or degree (for example, courses taken before admission to the McGill degree, or courses taken through the IUT agreement during the McGill degree, if permitted).

Normally, if courses completed elsewhere or at McGill prior to admission to the McGill master’s degree were not used to complete a degree, they could be credited toward the McGill degree, keeping in mind the one-third rule as described above. These would be entered as exemptions with credit at the time of admission.

If the courses completed elsewhere or at McGill prior to admission were used to complete a degree, exemptions may be granted without credit, i.e., the exempted course(s) must be replaced by other graduate course(s) at McGill. No double counting is allowed unless, exceptionally, the department offering the Master's degree permits it and the degree has an overall credit requirement greater than 45 credits. In other words, instances where exemptions with credit may be granted will be limited to the credit amount beyond the minimum of 45 credits for a McGill master’s degree. The one-third rule as described above continues to apply.

Research and Thesis – Master’s Degrees

All candidates for a research degree must present a thesis based on their own research. The total number of credits allotted to the thesis in any master's program must not be less than 24. The title of the thesis and names of examiners must be forwarded on a Nomination of Examiners and Thesis Submission form, available at www.mcgill.ca/gradstudies/thesis/guidelines/initial-submission, in accordance with the dates on www.mcgill.ca/importantdates, through the Chair of the department concerned at the same time that the thesis is submitted to Graduate and Postdoctoral Studies. A thesis for the master's degree, while not necessarily requiring an exhaustive review of work in the particular field of study, or a great deal of original scholarship, must show familiarity with previous work in the field and must demonstrate the ability to carry out research and to organize results, all of which must be presented in good literate style. The thesis will not normally exceed 100 pages; in some disciplines, shorter texts are preferred. Guidelines and deadlines are available at www.mcgill.ca/gradstudies/thesis/guidelines.

Language Requirements – Master's Degrees

Many master's degree programs do not include language requirements, but candidates who intend to proceed to a doctoral degree should take note of any language requirements and are strongly advised to take the examinations in at least one language while working for the master's degree.
1.1.7.2 Doctoral Degrees

Residence Requirements – Doctoral

Refers to the numbers of terms (or years) students must be registered on a full-time basis to complete their program. Students are not permitted to graduate until they have fulfilled the residence requirement (or paid the corresponding fees) in their program.

Candidates entering Ph.D. 1 must follow a program of at least three years’ residency at the University; this is a minimum requirement, and there is no guarantee that the work of the degree can be completed in this time, but students are expected to complete within the maximum specified period. Only exceptional candidates holding a bachelor’s degree will be considered for direct admission to Ph.D. 1 level.

It is required that candidates spend the greater part of each summer working on their theses, and those who do not do so are unlikely to complete a satisfactory thesis in the prescribed minimum time (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs).

A student who has obtained a master’s degree at McGill University or at an approved institution in a relevant subject and is proceeding to a Ph.D. degree will, on the recommendation of the department, be admitted to Ph.D. 2; in this case, the residency requirement for the program is two years.

In the doctoral program, students must be registered on a full-time basis for one more year after completion of the residency (i.e., Ph.D. 4 year) before continuing as Additional Session students until completion of the program.

All language requirements must be fulfilled and the grades reported before submission of the thesis to GPS (Thesis section).

Note: The master’s degree must have been awarded before initial registration in the doctoral program; otherwise, the admission level will be at Ph.D. 1 and residency will be extended to three years. Once the level of admission is approved, it will not be changed after obtaining the master’s degree if the date falls after registration in the program. If a previous awarded degree is a condition of admission, it must be fulfilled before registration in another program.

As a rule, no more than one-third of the McGill program formal coursework can be credited with courses from another university.

Comprehensive Examinations – Doctoral

The majority of doctoral programs at McGill require candidates to pass a comprehensive examination or set of examinations or equivalent, such as qualifying examinations, preliminary examinations, candidacy papers, comprehensive evaluations, thesis proposals, etc. The results of this examination determine whether or not students will be permitted to continue in their programs. The methods adopted for examination and evaluation and the areas to be examined are specified by departmental regulations and approved by Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details. For more information, see University Regulations & Resources > Graduate > Guidelines and Policies > section 1.2.9: Ph.D. Comprehensives Policy.

Language Requirements – Doctoral

Many graduate departments in the Faculties of Agricultural and Environmental Sciences, Education, Engineering, Management, Medicine, and Science do not require a language examination. Students should inquire in their departments if there are any such requirements, or whether any other requirements have been substituted for those relating to languages.

Graduate departments in the Faculties of Arts, Music, and Religious Studies usually require proficiency in one or two languages other than English. In all cases, students should consult departmental regulations concerning language requirements.

Language requirements for the Ph.D. degree are met through demonstrated reading knowledge. The usual languages are French, German, or Russian, but in particular instances another language may be necessary.

All language requirements must be fulfilled and the grades reported before submission of the thesis to GPS (Thesis section).

Students must contact their departments to make arrangements to take the Language Reading Proficiency Examinations. Students may, however, demonstrate competence by a pass standing in two undergraduate language courses taken at McGill (see departmental regulations).

Candidates are advised to discharge their language requirements as early in their program as possible.

Students expecting to enrol in Professional Corporations in the province of Quebec are advised to become fluent in both spoken and written French.

French language courses are available at the French Language Centre. The teaching is intensive and class sizes are kept small. While undergraduate students are given preference, graduate students who are certain they can devote sufficient time to the work may enrol.

Thesis – Doctoral

The thesis for the Ph.D. degree must display original scholarship expressed in good literate style and must be a distinct contribution to knowledge. Formal notice of a thesis title and names of examiners must be submitted to the Thesis section of GPS on the Nomination of Examiners and Thesis Submission form, available at www.mcgill.ca/gps/thesis/guidelines/initial-submission, in accordance with the dates on www.mcgill.ca/importantdates, at the same time as the thesis is submitted. The list of examiners must be approved by the Department Chair, the supervisor and the student. The Thesis section of GPS should be notified of any subsequent change of title as early as possible. Guidelines and deadlines are available at www.mcgill.ca/gps/thesis/guidelines.

Special regulations for the Ph.D. degree in particular departments are stated in the entries of those departments.

Thesis Oral Examination – Doctoral

After the thesis has been received and approved, a final oral examination is held on the subject of the thesis and subjects intimately related to it. This is conducted in the presence of a Committee of at least five members presided over by a Pro-Dean nominated by Graduate and Postdoctoral Studies. The Chair of the candidate’s department and the Thesis Supervisor are regularly invited to be members of the Committee; at least one member of the Committee is appointed from outside the candidate’s department. Guidelines are available at www.mcgill.ca/gps/thesis/guidelines.
1.1.7.3 Ad Personam Programs (Thesis Option Only)

In very rare circumstances, an applicant who wishes to engage in Master’s (thesis option only) or Ph.D. studies of an interdisciplinary nature involving joint supervision by two departments, each of which is authorized by the Government of Quebec to offer its own graduate programs, may be admitted to an Ad Personam program. For more information, see [www.mcgill.ca/gradapplicants/programs](http://www.mcgill.ca/gradapplicants/programs) and contact the relevant department.

1.1.7.4 Coursework for Graduate Programs, Diplomas, and Certificates

Upper-level undergraduate courses (excluding 500-level) may not be considered for degrees, diplomas, and certificates unless they are already listed as required courses in the approved program description. If an upper-level undergraduate course (excluding 500 level) is taken by a graduate student, it must come as a recommendation from the Graduate Program Director in the department. The recommendation must state if the undergraduate course is an additional requirement for the program (must obtain B- or better) or if the course is extra to the program (will be flagged as such on the record and fees will be charged). See document at [www.mcgill.ca/gps/students/registration#coursereg](http://www.mcgill.ca/gps/students/registration#coursereg).

English and French language courses offered by the French Language Centre (Faculty of Arts) or the School of Continuing Studies may not be taken for coursework credits toward a graduate program.

All substitutions for coursework courses offered by the French Language Centre (Faculty of Arts) or the School of Continuing Studies may not be taken for coursework credits toward a graduate program.

Courses taken at other institutions to be part of the requirements of a program of study must be approved by GPS. Double counting is not permitted.

1.1.8 Student Records

Students are responsible for verifying their student records and progress throughout their academic career. The following sections describe a few useful tools to help you stay on track.

1.1.8.1 Grading and Grade Point Averages (GPA)

**Classification of Grades:**

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.

*Note for Graduate and Postdoctoral Studies:* Class averages do not appear on transcripts for graduate courses. In the Faculty of Engineering, letter grades are assigned according to the grading scheme adopted by the professor in charge of a particular course.

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

Grades A through B- represent satisfactory passes, and F a failure. Certain courses have been approved for Pass/Fail (P/F) grading. Students must obtain grades of B- or better in courses used to fulfill program requirements.

<table>
<thead>
<tr>
<th>Grading and Grade Point Averages (GPA)</th>
<th>Grade Points</th>
<th>Numerical Scale of Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>85–100%</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>80–84%</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>75–79%</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>70–74%</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>65–69%</td>
</tr>
<tr>
<td>F (Fail)</td>
<td>0</td>
<td>0–64%</td>
</tr>
</tbody>
</table>

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 dividing the sum of the course credit, times the grade points 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.

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

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.
Note for Graduate and Postdoctoral Studies: If you change levels, e.g., from master’s to doctoral, the CGPA starts again.

This policy took effect in January 2003. 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 F or J continue to be used in the CGPA calculation even after you repeat the course or if you take a supplemental examination.

Other Grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td>in progress; (Master’s Thesis Courses Only)</td>
</tr>
<tr>
<td>P</td>
<td>pass; Pass/Fail grading is restricted to certain seminars, examinations and projects only. In such cases all grades in these courses are recorded as either Pass or Fail. Not calculated in TGPA or CGPA.</td>
</tr>
<tr>
<td>HH</td>
<td>to be continued; the use of this grade is reserved for major research projects, monographs and comprehensive examinations as designated for graduate studies.</td>
</tr>
<tr>
<td>J</td>
<td>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.</td>
</tr>
<tr>
<td>K</td>
<td>incomplete; deadline extended for submission of work in a course or for the completion of a program requirement such as a Ph.D. language examination (maximum four months). (Need a K contract signed)</td>
</tr>
<tr>
<td>KF</td>
<td>incomplete/failed; failed to meet the extended deadline for submission of work in a course or for the completion of a program requirement; calculated as a failure in TGPA and CGPA.</td>
</tr>
<tr>
<td>KK</td>
<td>completion requirement waived. Not calculated in TGPA or CGPA. This is used in exceptional cases only, with the approval of the Assistant Registrar, Records. Not calculated in TGPA or CGPA.</td>
</tr>
<tr>
<td>KE or K*</td>
<td>further extension granted with the approval of the Assistant Registrar, Records (maximum two years.) (Need a K contract signed.)</td>
</tr>
<tr>
<td>L</td>
<td>deferred; for students whose final examinations or papers have been deferred, for reasons such as illness, at the time of the examination. Deferrals will not be granted for reasons such as early plane bookings. The “L” grade must be cleared as soon as possible (maximum four months). A dated medical certificate or appropriate document recommending a deferral must be submitted to Service Point with a departmental recommendation for a deferral before or immediately after the examination. In particular, such recommendations will not be considered if medical reasons are brought forth after a grade is assigned. By commencing to write any examination, the student waives the right to plead medical causes for deferral or permission to write a supplemental examination, unless the medical problem occurs in the course of the examination and is documented by examination authorities.</td>
</tr>
<tr>
<td>LE or L*</td>
<td>further deferral; permitted to defer examination for more than the normal period.</td>
</tr>
<tr>
<td>NA or &amp;&amp;</td>
<td>grade not yet available.</td>
</tr>
<tr>
<td>NR</td>
<td>no grade reported by the instructor (recorded by the Registrar).</td>
</tr>
<tr>
<td>Q</td>
<td>course continued in next term (applicable only to courses taken pre-Fall 2002).</td>
</tr>
<tr>
<td>Satisfactory/Unsatisfactory</td>
<td>Not used for graduate students.</td>
</tr>
<tr>
<td>W</td>
<td>withdrew with approval; a course dropped, with permission, after the Course Change deadline; not calculated in TGPA or CGPA.</td>
</tr>
<tr>
<td>WF</td>
<td>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 and graduate students.)</td>
</tr>
<tr>
<td>WL</td>
<td>faculty permission to withdraw from a deferred examination (approved by the Assistant Registrar, Records); not calculated in TGPA or CGPA.</td>
</tr>
<tr>
<td>W- or --</td>
<td>no grade; student withdrew from the University, not calculated in TGPA or CGPA.</td>
</tr>
</tbody>
</table>

1.1.8.1 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.

Note for Law: Option 1 is not available to students in the Faculty of Law. Option 3 is by approval of the Associate Dean (Academic) or the Director (Student Life & Learning) only.
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 University Regulations & Resources > Undergraduate > Examinations: General Information > Final Examinations > : 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.

Note for Graduate and Postdoctoral Studies: Only options 2 and 3 above are applicable to graduate students. Students wishing to appeal a J grade should write to the Associate Registrar, Management of Academic Records.

1.1.8.2 Transcript of Academic Record

The following sections contain information on transcripts and other details regarding academic records. Use the right-hand menu to jump to a specific section.

1.1.8.2.1 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.

Personal information is protected in the Province of Quebec by the Act Respecting Access to Documents held by Public Bodies and the Protection of Personal Information (the “Access Act”). The Access Act provides that McGill University can only release personal information contained in your file with your authorization or if specifically authorized by law.

For the purpose of consent and acknowledgement at the time of application, Personal Information includes, but is not limited to: name, address, telephone number, email address, date of birth, citizenship, McGill ID, program, student status, and academic record information.

Registered students may oppose the release of certain Personal Information by completing an Opposition Form at the Enrolment Services Office or at the Student Affairs Office (Macdonald Campus).

After having reviewed the information relating to access to Personal Information at the time of application, you would be asked to agree that the University may collect, use, disclose or otherwise manage your Personal Information as described below, as necessary and as the case may be.

At the time of application, you would also be asked to consent to the release of Personal Information contained in your admissions or student records file to the following persons or bodies, as necessary to each body, in the exercise of their mission:

- student associations recognized by McGill University for the categories of student to which you belong (limited to your contact and program information);
- schools or colleges that you have attended;
- a professional body or corporation, where relevant;
- the Ministère de l’Immigration, de la Diversité et de l’Inclusion and/or the Régie de l’assurance-maladie du Québec; Citizenship and Immigration Canada; the Ministère de l’Éducation et de l’Enseignement supérieur and/or the Ministère de l’Éducation, du Loisir et du Sport;
- the Association of Universities and Colleges of Canada, the Association of Registrars of the Universities and Colleges of Canada and the BCI (Bureau de coopération interuniversitaire, previously known as CREPUQ) or the member institutions of these organizations, for the purpose of admissions operations and the production of statistics;
- libraries of other Quebec universities with which McGill has established reciprocal borrowing agreements;
- the appropriate authorities involved with external or internal funding of your fees (financial records may also be disclosed to such authorities);
- students and alumni of the University who have volunteered to speak with students for the purpose of facilitating their integration to the University;
- other universities and colleges, at the discretion of the University, if any information connected to your application is determined to be false and misleading, concealed or withheld, contains evidence of academic dishonesty or inappropriate conduct;
- regulatory authorities, law enforcement or other persons, as authorized or required by law; and
- McGill Network and Communications Services for the purposes of listing your McGill email address in an online email directory.

In addition to the above, if you are a candidate for admission to Graduate and Postdoctoral Studies, you would be asked to authorize the University to request letters of reference on your behalf from referees you have identified, with the understanding that each referee would be provided with information indicating that you have applied to be admitted to McGill University, including your name, the McGill program you have applied to, the academic term when you wish to begin your studies at McGill, and your statement describing how the referee knows you.

In addition to the above, if you are a candidate for admission to the Faculty of Law, you would be asked to consent to the release of Personal Information to the Committee for Law Admissions Statistics Services and Innovations (CLASSI); the Programme of Legal Studies for Native People, Native Law Centre, University of Saskatchewan.
In addition to the above, **if you are a candidate for admission to the Faculty of Medicine or to the Faculty of Dentistry in undergraduate, graduate, or postgraduate studies, you would be asked to consent to** the release of Personal Information to other schools of medicine; to the Employment Centre of Human Resources Development of Canada and Québec; to a McGill professor, researcher or graduate student, strictly for research or teaching purposes; and to a University teaching/affiliated hospital or health center to which you apply/or join for residency or rotations.

In addition to the above, **if you are a candidate for admission to the Schulich School of Music, you would be asked to consent to** the use of your name and images in public recognition of academic achievement and in the advertising and audio and video recording of student ensemble concerts for distribution using different media and formats.

At the time of application, you would be asked to **authorize the University to**:

- collect and maintain your Personal Information for the purpose of administering your University admissions and student record files;
- obtain copies of your transcripts from the Ministère de l'Éducation et de l'Enseignement supérieur; the Ministère de l'Éducation, du Loisir et du Sport; the Ontario University Application Centre and/or the British Columbia Ministry of Education;
- make inquiries to and obtain Personal Information from the Ministère de l'Immigration, de la Diversité et de l'Inclusion, Citizenship and Immigration Canada and/or the Régie de l'assurance-maladie du Québec to verify the validity of your immigration or health insurance status;
- validate with the Ministère de l'Éducation et de l'Enseignement supérieur information regarding your citizenship and previous institution attended, if necessary and as required in order to manage the admissions process and to determine your tuition fees;
- verify any information or statement provided as part of your application; and
- contact you through the McGill Alumni Association and University offices that maintain contact with McGill students, alumni and friends, for the purpose of providing University updates and opportunities for direct support to the University, including fundraising, and making available special offers such groups may benefit from.

At the time of application, you would be asked to **acknowledge** that:

- an admission granted based on incomplete, incorrect, or false information contained in your application or supporting documents may be revoked at the sole discretion of the University. The University reserves the right to revoke admission at any time.
- if admitted to McGill University, you would be bound by the statutes, rules, regulations, and policies in place from time to time at McGill University and at the faculty or faculties in which you would be registered, including those policies contained in the University calendars and related fee documents. **You would undertake to observe all such statutes, rules, regulations, and policies.** Your obligations would commence with your registration and terminate in accordance with the University's statutes, regulations, and policies.

### 1.1.8.2.2 Transcript of Academic Record: General Information

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.

The University issues official transcripts in electronic or paper format. Requests for both electronic official (eTranscripts) and paper transcripts are submitted in Minerva.

eTranscript PDFs are sent the same-day in as little as 15 minutes (providing there are no holds on your student account and no attachments to review) via the National Student Clearing House, a US-based non-profit organization and leading provider of trusted, educational data exchange and verification services. A minimal fee applies.

Paper official transcripts are processed in 3 to 5 working days (5 to 7 during peak periods) and are mailed by regular Canada Post mail to the address(es) indicated on the request. Paper transcripts are free of charge for currently registered students. Transcripts fees are applicable for alumni and former students. Requests for archived transcripts (pre-1972), have a longer processing time.

Paper official transcripts are printed on secure paper that cannot be copied. eTranscripts are digitally signed and certified PDF documents that cannot be copied.

For more information on requesting official transcripts, refer to Official Transcripts.

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

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

### 1.1.8.2.3 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 1.1.8.2.4: Official Transcripts**.

**1.1.8.2.3.1 Verification of Student Records: Unofficial Transcripts**

Subject to **section 1.1.8.4: 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.
Note for Graduate and Postdoctoral Studies: You should direct any questions or problems with your record to your Graduate Program Director.

1.1.8.2.4 Official Transcripts

For more information on transcripts, applicable costs, delivery method, and processing time, see [www.mcgill.ca/student-records/transcripts](http://www.mcgill.ca/student-records/transcripts).

**Currently Registered Students:** Use Minerva ([www.mcgill.ca/minerva](http://www.mcgill.ca/minerva)) to order an official transcript at [Student Menu > Student Records Menu > Request Printed/Official Transcript](http://www.mcgill.ca/minerva/student-menu/student-records-menu/request-printed-official-transcript).

**Alumni or former students who were registered or graduated as of 1972 or later:** You must submit your request in Minerva ([www.mcgill.ca/minerva](http://www.mcgill.ca/minerva)) at [Student Menu > Student Records Menu > Request Printed/Official Transcript](http://www.mcgill.ca/minerva/student-menu/student-records-menu/request-printed-official-transcript) and will require login credentials. Please visit the IT Knowledgebase ([www.mcgill.ca/it](http://www.mcgill.ca/it)) to view how to obtain your McGill ID & Minerva PIN.

**Alumni or former students who were registered or graduated prior to 1972 (archived records):** You must submit an online Request for Archived Official Transcript located at: [www.mcgill.ca/student-records/transcripts/printed-transcripts](http://www.mcgill.ca/student-records/transcripts/printed-transcripts) and will be required to provide a copy of a government-issued Photo ID.

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

1.1.8.2.5 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](http://www.mcgill.ca/student/records/transcripts/key).

For information on our current course numbering, see [University Regulations & Resources > Undergraduate > Registration > Course Information and Regulations > section 1.1.4.2: Course Numbering](http://www.mcgill.ca/student-records/transcripts/key).

**Note for Continuing Studies:** Examples of course numbers displaying on transcripts prior to September 2002 are:

- 280-211X = Intro. to Financial Accounting in Fall term (X);
- 629-202Y = Micro Economics in Winter term (Y);
- 660-221Z = Project Management extending for two terms, Fall and Winter (Z).

1.1.8.3 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](http://www.mcgill.ca/minerva/student-menu/student-records-menu), 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](http://www.mcgill.ca/student-records/transcripts/key) 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](http://www.mcgill.ca/student-records/transcripts/key), see [www.mcgill.ca/students/courses/plan/evaluation](http://www.mcgill.ca/students/courses/plan/evaluation).

**Note for Medicine and Dentistry:** The Degree Evaluation tool is not used in the faculties of Medicine and Dentistry.

**Note for Nursing:** You may view Degree Evaluation Reports on Minerva. However, if you have completed courses that differ from the School’s defined “Course of Study” for the program you are completing, it is highly recommended that you do so in consultation with your academic adviser. Any questions about a Degree Evaluation Report or requests for adjustments should be discussed with the Nursing Student Affairs Office.
1.1.8.4 Changes to Student Records after Normal Deadlines
1.1.8.4.1 Student Record Changes

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

1.1.8.4.2 Registrar Deadlines

- Fall term – January 31
- Winter term – June 1
- Summer term – October 1

1.1.8.4.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the 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](http://www.mcgill.ca/students/advising).

1.1.8.4.4 After Registrar Deadlines

The University does not normally consider a change requested after the 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](http://www.mcgill.ca/students/advising).

1.1.8.4.5 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.

1.1.8.4.6 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 1.1.12.1: Why Does McGill Collect Legal Documents from You? You may be assessed a fee for a change requested after the submission deadline.

1.1.9 Regulations Concerning Theses

1.1.9.1 Thesis Regulations

A thesis is a scholarly work requiring discussion of methodology, conclusions, and significance of the research beyond what might be expected for manuscripts for publication. A thesis must be written in English or French, except for those submitted by students in language units. The University requires that all theses conform to the specifications for master’s theses or doctoral theses. Unless the Dean of Graduate and Postdoctoral Studies has given her/his consent in advance, departures from these norms will render a thesis unacceptable to fulfill the requirements for the degree.

1.1.9.2 Thesis Submission (Initial and Final E-thesis Submission)

Theses may be submitted at any time during the year. However, for each of the three annual dates for conferring degrees/convocation, there are deadlines for initial submission (when the thesis is sent out to examiners for evaluation) and for the final e-thesis submission: April 15, August 15, and December 15. Please note that some units enforce earlier submission deadlines than those listed by Graduate and Postdoctoral Studies, so it is important that students verify these dates with their unit.

A thesis is a public document and once the final e-thesis has been submitted for the degree, it exists in the public domain.
1.1.9.3  **Thesis Examiners**

For a master’s thesis, the examiner must be a scholar of established reputation and competence in the field of the thesis research. The examiner may be from inside or outside the University. Units may nominate a member from within the unit, as long as there is no conflict of interest with the student. The doctoral external examiner must be a scholar of established reputation and competence in the field of the thesis research. They must be from outside the University and normally must hold a doctorate or equivalent. The external examiner must be at arm’s length from the candidate and have no other conflict of interest.

The doctoral internal examiner is expected to be knowledgeable in the area and topic of the thesis, though not necessarily to the same extent as the external examiner. The internal examiner also serves to ensure that McGill norms are observed with respect to quality of the thesis. Normally, the internal examiner is a McGill faculty member (but not the supervisor) affiliated with the unit in which the thesis originates, but they may also be nominated from other units at McGill.

1.1.9.4  **Conflict of Interest**

A nominated examiner must be without conflict of interest to evaluate the thesis. A conflict of interest can be perceived to prejudice the examiner’s evaluation of the thesis. The supervisor and student must acknowledge that there will be no further contact with the examiners after they have been initially contacted. Any contact with examiners by the supervisor or student after the nomination process constitutes a conflict of interest and the examination process will be cancelled.

1.1.9.5  **Thesis Examination Failures**

If one or both of the examiners decided that the thesis does not meet the requirements for the degree (i.e., an outcome of not passed was designated on the examination report), a master’s student will not graduate and a doctoral student will not proceed to the oral defence. The student has the option to revise and resubmit a failed thesis. Graduate and Postdoctoral Studies must be notified within six (6) weeks if the student decides to revise and resubmit. If the student does not contact Graduate and Postdoctoral Studies requesting to revise and resubmit the thesis within the designated six-week time period or, once approved to revise the thesis, does not resubmit the revised thesis by the one-year deadline, the thesis will be deemed to have failed and the student will be withdrawn from the University. If the revised thesis is subsequently failed again, the student will be withdrawn from the University.

If a thesis has not been passed and the student feels that this judgment is based on bias, error, or serious misrepresentation on the part of the examiner, the student may submit a written request for a new examiner for the thesis to the Dean of Graduate and Postdoctoral Studies, documenting the bias, error, or serious misrepresentation. This request must be made within six (6) weeks of the notification that the thesis has not passed, and may be accompanied by a letter of support from the supervisor and/or unit.

1.1.9.6  **Doctoral Oral Defence**

The objectives of the oral defence are to ensure that: 1) the thesis meets the academic standards necessary for the Ph.D. degree; and 2) the Ph.D. candidate can effectively present and defend the dissertation at a level of knowledge and understanding that is commensurate with that of the Ph.D. degree. The unit is responsible for confirming the defence date and notifying Graduate and Postdoctoral studies at least four (4) weeks prior to the defence date.

The oral defence committee consists of five or seven members, including the Chair, supervisor(s), the internal thesis examiner, other member of the unit, and the external member (external to the unit). The defence committee is designed to ensure that a majority of members have not been closely involved with the thesis research and to have an odd number of members to avoid a tie in case of a vote. The Pro-Dean is a non-voting committee member appointed by Graduate and Postdoctoral Studies to facilitate the examination.

1.1.9.7  **Oral Defence Outcomes**

There are five possible outcomes of an oral defence. Decisions A and B qualify as a pass. Decisions C, D, and E qualify as a fail.

**PASS**

- **Decision A**: If the committee feels that the thesis and the responses to questions raised in the defence meet appropriate academic standards for the granting of the Ph.D. degree, the student will be judged to have passed the defence.
- **Decision B**: If the committee determines that minor revisions (i.e., stylistic or editorial changes that should be able to be completed in no more than three weeks) are necessary for the thesis to fulfill the academic standards necessary for partial fulfillment of the degree, the Pro Dean must delegate one member of the committee, usually the supervisor, to ensure that the student carries out the required changes within the stated time frame.

**FAIL**

If the committee determines that the thesis or oral defence does not meet appropriate academic standards for the Ph.D. degree and would require, for example, major revisions to the text and/or additional study, it must then decide between the following three options:

- **Decision C**: The student is allowed to resubmit a revised version of the thesis within six (6) months to the oral defence committee who will then evaluate the revised thesis without another oral defence.
- **Decision D**: The student is allowed to conduct another defence within six (6) months without the submission of a revised thesis.
- **Decision E**: The student is allowed to resubmit a revised version of the thesis within six (6) months to the oral defence committee, who will then evaluate the revised thesis and conduct another oral defence.

*Note:* If the revised thesis and/or oral defence is subsequently failed again, the student will be withdrawn from the University.
1.1.10 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.

Note: Effective Fall 2013, all newly-admitted undergraduate students must complete a mandatory online academic integrity tutorial accessed through myCourses. For more information, see www.mcgill.ca/students/srr/honest/students/test.

Note for Graduate and Postdoctoral Studies: Since Spring 2011, graduate students must complete a mandatory online academic integrity tutorial accessed through myCourses. All newly-admitted graduate students must complete the tutorial within their first semester or a “hold” will be placed on their record. For more information, see www.mcgill.ca/students/srr/honest/students/test.

1.1.11 Identification and Personal Information

The following sections include information regarding McGill ID cards, updating your personal information, and more.

1.1.11.1 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.

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 for at least 24 hours after you have registered for your first course before requesting an 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 replacement fee; please see the Student Accounts website for exact fee amount.
- If you need security access to labs or other facilities please contact the Area Access Manager (AAM) of the building in which the room is located. To find out who the AAM is, consult the Find the AAM list on the Security Services website.

1.1.11.1.1 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/student-records/personal-information/id.

- New students can obtain their ID card 24 hours after registering for their first course. Registration dates for new students can be found here.
- Returning students must be registered for at least one course, and may present themselves at an ID card centre during their operational hours at any time in order to obtain a replacement card. Please refer to the following site for information on the downtown campus ID centre: www.mcgill.ca/student-records/personal-information/id.

1.1.11.1.2 ID Card Schedule for the Macdonald Campus

New students can obtain their ID card 24 hours after registering for their first course. Registration dates for new students can be found here.

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.

**Note for Continuing Studies:** You must allow at least one day after you have registered before applying for your ID card. You will not be issued an ID card if you have fees owing. You may obtain your ID card at the Client Services Office of the School of Continuing Studies. If you withdraw from all of your courses, you must attach your ID card to the withdrawal form or return it to the Client Services Office of the School of Continuing Studies.

**1.1.11.2 Legal Name**

This is the name that will appear on your e-bills, tax receipts, degree, diploma, or certificate on graduation, and on your official 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.

**1.1.11.3 Preferred First Name**

Your preferred first name is a name by which you are normally addressed, and is different from your legal first name. The Preferred First Name Procedure enables students to use an alternate preferred first name for certain purposes while studying at McGill.

**Students who wish to use a preferred first name should enter this information into Minerva as soon as possible in order to ensure that their preferred first name is used as widely as possible.**

The preferred first name may be used on all unofficial university documents and tools, such as:

- McGill ID cards
- Class lists
- Student advising transcripts

The student's legal name must appear on official university documents, such as:

- Official university transcripts
- Reports to government
- Letters of attestation
- Diplomas and certificates
- Tuition fee e-bills

It is important to note that making a request to use a preferred first name at McGill does not change a student's legal name in the McGill student record or records with government authorities.

You can provide a preferred first name on your application for admission or, once admitted, on Minerva, under the Personal Menu. From the Personal Menu, select Name Change and then add your preferred first name in the preferred first name field.

You can also request that your preferred first name be part of your McGill email address by submitting a change to Network and Communications Services (NCS) via the REGGIE tool. For further details, see [www.mcgill.ca/student-records/personal-information/address](http://www.mcgill.ca/student-records/personal-information/address), which includes the Preferred First Name FAQ.

**1.1.11.4 Verification of Name**

You should verify the accuracy of your name on McGill's student records via Minerva ([www.mcgill.ca/minerva](http://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. You can also add a preferred first name that is different from your legal first name, and it will be used internally at McGill. For more information on the Preferred First Name Procedure, see [www.mcgill.ca/student-records/personal-information/address](http://www.mcgill.ca/student-records/personal-information/address).

Note that you cannot change your legal name via Minerva. Requests for such changes must be made by presenting official documents (see section 1.1.11.2: Legal Name and section 1.1.11.3: Preferred First Name) in person at Service Point, 3415 McTavish Street, Montreal QC H3A 0C8.
1.1.11.5 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—refer to the instructions at www.mcgill.ca/student-records/personal-information/address. Macdonald campus students can request changes in person at the Macdonald Campus Student Affairs Office, Laird Hall, Room 106.

1.1.12 Submitting Legal Documents

McGill requires documentation from you to confirm your legal status. The following sections describe the documents needed for your specific situation and how you should proceed.

1.1.12.1 Why Does McGill Collect Legal Documents from You?

Your tuition status at McGill will vary depending on your legal status in Canada. In order for us to determine your appropriate rate of tuition (Quebec, Canadian out-of-province, or international), we require documentation 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 1.1.12.2: 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 created by the Quebec Ministry of Education, and is obligatory for all students registered in a Quebec institution. If you have previously attended school in Quebec, you should already possess a Permanent Code; it can be found on your school report card or your CEGEP and/or university transcripts. If you do not already have a Permanent Code, we will request to have it created for you. Once it has been created, it will reflect on your unofficial transcript.

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.

1.1.12.2 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 to prove your Canadian and/or Quebec status. In most cases, your status is confirmed to us by the Government of Quebec or is already in your McGill record. Check your Minerva account to verify that your status is updated correctly (Select Student Menu > Student Accounts Menu > View your Tuition and Legal Status).

- You have applied to McGill from another Quebec university
  - Proof of Canadian status is required: Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (Note 2); or valid Canadian Permanent Resident card (both sides of the card).
### Quebec and Canadian Out-of-Province Students

- Additionally, for Quebec residency status, usually no documents are required, unless McGill cannot confirm this from the Government of Quebec. Check your Minerva account to verify that your status is correct.

#### You were born in Quebec
- Quebec birth certificate (Note 4)

#### You were born in (or are a Landed Immigrant from) a Canadian province other than Quebec
- Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (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 or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (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)
- You may need a Visitor's Permit or eTA issued by Citizenship and Immigration Canada at your port of entry into Canada. To determine if you are required to have a visa, please refer to the Citizenship and Immigration Canada website.
- Photo page of your passport
- 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)
- Study Permit issued by Immigration Canada (Note 3)
- Permanent Code Data Form (Notes 1 and 5)

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**Note 1:** Your signed Permanent Code Data Form is usually required. If the names of your parents appear on your birth certificate, if you have clearly identified your parents’ names on your application to McGill, 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 (both sides). 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 are eligible 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](http://www.mcgill.ca/legaldocuments/forms).

### 1.1.12.2.1 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-tuition-and-fees-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-tuition-and-fees-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-tuition-and-fees-information/tuition-fee-exemptions, as well as at www.mcgill.ca/legaldocuments/exemption.

Note that this information may be subject to change.

1.1.12.3 Has McGill Received Your Documents?

1.1.12.3.1 Quebec/Canadian/International Fees and Immigration Status

Once McGill has received your documents, it usually takes 5 to 10 business days to process them and update your status 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.

  Note: Ensure that you select the correct term when viewing your 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.

If you do not agree with your tuition status, notify McGill right away. Documentation provided to modify your legal and tuition status must be received within the given semester for changes to be applied for that semester. Retroactive tuition status updates are not permitted; requests and documents submitted after the semester has ended will be processed, with changes applied to the following semester.

1.1.12.3.2 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 1.1.12.2: 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.

1.1.12.4 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 semester is the last day of classes for that semester (e.g., December 1 for changes to be made to your tuition status for the Fall term, or April 1 for changes to be made for the Winter term).

If documents are still missing from your file subsequent to the start of the semester, 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 from their courses.

1.1.12.5 Where and How Do I Send My Documents?

You must send in all your documents after you have accepted your offer of admission but before the start of classes. Do not send originals. Email 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/how 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.
   
   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).

If there is a problem with your documents, contact:

**Telephone:** 514-398-7878

**Email:** www.mcgill.ca/students/servicepoint/studentrequestform

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**1.12.5.1 For the School of Continuing Studies**

By Email:

*legaldocuments.conted@mcgill.ca*

In Person (appointment required) or By Mail/Courier:

McGill University
School of Continuing Studies
688 Sherbrooke Street West, Suite 1199
Montreal QC H3A 3R1

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

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**1.13 Graduation**

In order to graduate, you must complete faculty and program requirements in the program you were admitted to and registered in. **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. Some faculties may require a higher CGPA in order to graduate.

You should contact your 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 their faculty under **Faculties & Schools > Graduate > Program Requirements** for information on minimum residency requirements for graduate programs. This information is listed for each faculty, so you can also access it through your faculty's graduate pages.

**Note for Continuing Studies: Minimum Residency Requirement (Continuing Studies):**

- You must successfully complete a minimum of 21 McGill credits (excluding pre-requisites and co-requisites) in order to obtain a McGill undergraduate certificate. For specific information refer to your department section of this publication.
- Students completing a second undergraduate certificate at McGill must successfully complete a minimum of 21 McGill credits (excluding prerequisites and corequisites) in order to obtain their certificate. You should check with your adviser for any conditions applicable to the McGill credits required toward your certificate.
1.1.13.1 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 1.1.13: 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/graduation/applying.

Once you apply to graduate, you are authorizing the University to include your name in the Convocation program and send your name and email to the academic regalia supplier. If you want your name to be omitted from this publication or submitted to the regalia supplier, you must complete an Opposition Form by March 15 for Spring convocation, and September 15 for Fall convocation.

1.1.13.1.1 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.

- **Note for Continuing Studies:** The minimum residency requirement of 60 credits does not apply to the School of Continuing Studies certificates and diplomas.

- **Note for Graduate and Postdoctoral Studies:** If you miss one of these deadlines, you must follow the procedures at www.mcgill.ca/gps/students/registration/graduating. The Application for Graduation is available on Minerva for students in non-thesis programs who have registered for their final year. To ensure that you have met the requirements for graduation, you should refer to Program Requirements > Master's Degrees, found under each faculty's Graduate section in the McGill eCalendar.

- **Note for Physical and Occupational Therapy:** You must be in Satisfactory Standing with a minimum CGPA of 2.30 to graduate.

1.1.13.2 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/graduation/convocation for information regarding convocation ceremonies.

- **Note for Medicine and Dentistry:** 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.

1.1.13.3 Replacing a Diploma

1.1.13.3.1 Required Documents

**Replacing a lost diploma**

You must provide a request including your full name, address, phone number, and date of birth, as well as your degree and the year it was granted.

**Requesting a diploma or modifying your name**

You must provide a written request including your full name, address, phone number, and date of birth, as well as your degree and the year it was granted. For name changes, upload a photocopy of your birth certificate, change of name certificate, marriage certificate, proof of divorce, or other legal documents that support your name change, corrections, additions, or deletions. Make sure to indicate any changes you want made in your written request.
1.1.13.3.2 Submitting your request

There are two ways to submit a request:

1. Via Service Point Checkout eStore – Follow the instructions found at www.mcgill.ca/graduation/diplomas first, then to submit the order go to spcheckout.mcgill.ca.

2. Come to Service Point in person with the required documents. You must pay the replacement fee of CAD$120 per diploma copy (includes trackable mail delivery). Payment is accepted by debit card only. 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.

1.1.13.3.3 Certified Copies

Enrolment Services will certify copies of your diploma in the original language or issue certified translations in English (from the original Latin) or French (from the original in English or Latin).

Submitting your request for a certified copy

There are two ways to submit a request:

1. Via Service Point Checkout eStore – Follow the instructions found at www.mcgill.ca/graduation/diplomas first, then to submit the order go to spcheckout.mcgill.ca.

2. In person:
   • Come to Service Point with 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, and indicate how many copies you need;
   • Indicate if you require certified translations, and if yes, in what language (i.e., English or French);
   • Pay the CAD$15 per copy fee payable via debit card only.

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

1.1.13.4 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.

1.1.14 Information Technology (IT) Resources

McGill University offers a variety of Information Technology resources open to students, faculty, staff, and other members of the McGill community. Please see section 1.9: Information Technology (IT) Services and visit IT Services > Getting Started > Students for further details.

1.1.14.1 Responsible Use of McGill Information Technology Resources

When using all McGill IT services, whether hosted on premises, by an external supplier, or in the cloud, you must comply with the Policy on the Responsible Use of McGill Information Technology Resources. You can find this policy in the listing of University Policies, Procedures and Guidelines under Information Technology, at www.mcgill.ca/secretariat/policies-and-regulations.


1.1.14.2 Use of Cloud Services

Your usage of cloud services, whether provided by McGill or self-acquired as a consumer service, must respect the Cloud Data Directive. The Cloud Data Directive is also available at www.mcgill.ca/secretariat/policies-and-regulations.
1.1.14.3 Email Communication

All students are assigned a McGill Email Address (usually in the form of firstname.lastname@mail.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 have another email account using an external service provider (such as Gmail, Hotmail, Yahoo, etc.), please see the Options for dealing with multiple email services Knowledge Base article and choose the most appropriate method for accessing your McGill email conveniently.

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-and-regulations. For more information on email for students, refer to www.mcgill.ca/it.

Note for Continuing Studies: The above services are not available if you are registered in short courses or seminars not recorded on the official McGill transcript.

1.1.14.4 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
- Update your preferred first name
- 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
- Order a reduced-fare STM Opus card

For information on logging in to the Minerva website, visit our IT Services website at www.mcgill.ca/it and select Services; and then Minerva for Students and Guests.

1.1.14.5 myMcGill

myMcGill is a portal which gives students and staff a personalized interface to the University's information systems. It provides a central point of access to systems listed below, and displays timely news and important announcements.

Systems accessible through the portal include:

- Athletics
- Email
- FAMIS
- McGill home page (www.mcgill.ca)
- InfoEd
- Library
- Minerva
- myCourses
- myFuture
- myLab
- Visual Schedule Builder
To access myMcGill, click **Quick Links**, available at the top of any McGill web page, and then click myMcGill, or go to [https://mymcgill.mcgill.ca](https://mymcgill.mcgill.ca). Sign in with your McGill Username and McGill Password.

### 1.1.15 Student Health & Insurance

Learn more about health insurance, your requirements as a student, and services offered for special medical needs in the following sections.

#### 1.1.15.1 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/immunize/forms](http://www.mcgill.ca/studenthealth/immunize/forms) or by calling the Student Health Service at 514-398-6017.

#### 1.1.15.2 Health Insurance – International Students

**International Students (Non-Canadians or Non-Permanent Residents of Canada)**

By Senate regulation, all international students (full-time, part-time, half-time, Additional Session, Thesis Evaluation, Non-Thesis Extension, Special, Exchange, and Visiting) and their accompanying dependants must participate in the University's compulsory International Student Health Insurance Plan (IHI). 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 confirm your IHI contract on Minerva under the International Student Health Insurance Coverage Form and pick up an International Health Insurance card upon your arrival at McGill University from:

- **Downtown campus**
  
  Service Point
  
  3415 McTavish
  
  Montreal QC H3A 0C8
  
  Website: [www.mcgill.ca/students/servicepoint](http://www.mcgill.ca/students/servicepoint)

- **Macdonald campus**
  
  Student Services
  
  Centennial Centre, Suite CC1-124
  
  21,111 Lakeshore Road
  
  Ste. Anne de Bellevue QC H9X 3V9
  
  Website: [www.mcgill.ca/macdonald-studentservices](http://www.mcgill.ca/macdonald-studentservices)

For details on the health insurance plan and information concerning rates, consult the [ISS website](http://www.mcgill.ca/internationalstudents/health).

Students who meet certain criteria may be eligible for an exemption. **Exemption requests must be made on Minerva under the International Student Health Insurance Coverage Form.** Supporting documents for your exemption request should be scanned and emailed to [ISS](mailto:ISS), indicating in the body of the email your name, McGill ID number, and exemption request.

Exemptions are valid for one year only, and must be renewed each subsequent year.

All inquiries related to McGill's International Health Insurance plan must be directed to International Student Services:

**International Health Insurance**

Telephone: 514-398-4349

Email: [international.health@mcgill.ca](mailto:international.health@mcgill.ca)

Website: [www.mcgill.ca/internationalstudents/health](http://www.mcgill.ca/internationalstudents/health)

**Note for Continuing Studies:** If you are registered in the Intensive English and/or the Intensive French programs, you should contact the Client Services Office, School of Continuing Studies, at 514-398-6200 for information on health insurance.

#### 1.1.15.3 Health Insurance – Canadian Citizens and Permanent Residents

**Canadians residing in Canada**

All undergraduate and graduate (classed as Canadian full-time or Additional Session, Thesis Evaluation, Non-Thesis Extension, as well as postdoctoral candidates) students beginning in the Fall term will be automatically enrolled in the applicable Students' Society's (SSMU, MCSS, or PGSS) supplemental Health and Dental Plans. This supplemental Health Plan is only valid if you have provincial healthcare or have opted-in to the International health insurance plan. For details on fees, change of coverage dates, and what is covered by the plans, refer to [www.studentcare.ca](http://www.studentcare.ca), or contact:

Studentcare/Alliance pour la santé étudiante au Québec (ASEQ)

Telephone: 514-789-8775 or 1-866-795-4435 (Monday to Friday, 9 a.m. to 5 p.m.)

Website: [www.studentcare.ca](http://www.studentcare.ca)
If you are a Canadian student from **outside Quebec**, you should check with your provincial Medicare office to ensure that you have valid provincial health coverage while studying at McGill.

**Canadians who have been residing outside of Canada**

If you are a Canadian student who has been living abroad, you may not be eligible for provincial health insurance coverage. To verify your eligibility for the Quebec provincial health plan, contact:

*Régie de l’assurance maladie du Québec* (RAMQ)

245 Boulevard de Maisonneuve O., Suite 301
Montreal QC H3A 3G5
Telephone: 514-864-3411

**Important:** If you are not eligible, in order to ensure adequate health insurance coverage you may enrol in the **group plan** offered through International Student Services for international students. **Please note that this option is available only during the first month of each new semester at McGill.**

**Note for Continuing Studies:** As a Continuing Studies student, you are not a member of SSMU or MCSS. Therefore, the coverage of the Students’ Society’s Health and Dental Plans is not applicable.

**Note for Graduate and Postdoctoral Studies:** Graduates students classed as Canadian full-time or Additional Session, Thesis Evaluation, Non-Thesis Extension, as well as postdoctoral candidates are automatically covered by their society’s extended Health and Dental Plan (PGSS). Eligible students not charged automatically for insurance fees can choose to enrol themselves during the appropriate Change-of-Coverage period. For more information on what is covered by this plan, as well as enrolment, opt-out procedures, and deadlines, please refer to the latest information at [studentscare.ca/ten/McGillUniversitygraduatestudentsPGSS_Home](http://studentscare.ca/ten/McGillUniversitygraduatestudentsPGSS_Home). Students without valid Canadian Medicare, please see section 1.1.15.2: Health Insurance – International Students, or the Canadians who have been residing outside of Canada section above.

### 1.1.15.4 Special Medical Needs

If you have special medical needs, please book an appointment with Health Services to discuss how to manage your health while at McGill. Contact information for the **Downtown campus** is available at [www.mcgill.ca/studenthealth/see-doctor](http://www.mcgill.ca/studenthealth/see-doctor), and for the **Macdonald campus** at [www.mcgill.ca/macdonald-studentservices/feeling-sick](http://www.mcgill.ca/macdonald-studentservices/feeling-sick).

If you anticipate encountering ongoing barriers in the academic or physical environment due to disability, injury, or illness, please consult with the **Office for Students with Disabilities** to determine an appropriate Individualized Accommodation Plan. Appropriate medical documentation may be required, and can be discussed with an Access Advisor. Academic Accommodation planning and support is available to students at the downtown campus, as well as the Macdonald campus, and students in Continuing Studies. Please refer to [www.mcgill.ca/osd](http://www.mcgill.ca/osd) for more information, or to book an appointment.

**Note for Medicine and Dentistry:** In addition, see [www.mcgill.ca/thewelloffice](http://www.mcgill.ca/thewelloffice).

### 1.16 Facilities

Students are expected to treat facilities and services offered at McGill respectfully and responsibly, to benefit all present and future members of the McGill community.

#### 1.1.16.1 Proper Use of Computing Facilities

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/it/policies](http://www.mcgill.ca/it/policies).

#### 1.1.16.2 Non-Smoking Policy


### 1.2 Guidelines and Policies

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The **Guidelines and Policies** 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.

#### 1.2.1 Academic Accommodation of Pregnant Students and Students Caring for Dependents

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 fulfill 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 guidelines at www.mcgill.ca/students/srr/policies-student-rights-and-responsibilities.

1.2.2  Failure Policy

Purpose
This policy specifies conditions under which graduate students will be withdrawn from the University due to unsatisfactory standing resulting from failed courses and/or unsatisfactory Graduate Student Research Progress Tracking Reports.

Scope
This policy pertains to Courses and Graduate Student Research Progress Tracking Reports. It does not apply to comprehensive examinations, thesis examinations or doctoral oral defences.

For a failed thesis examination or doctoral oral defence, the policy on Thesis examination failures applies; for a failed comprehensive examination, the section 1.2.9: Ph.D. Comprehensives Policy applies.

Definitions

• “Course”: a course that counts for credit toward the student’s degree program (whether required, complementary, or elective), excluding comprehensive examinations. This includes courses approved to be taken at other institutions that count for credit toward the student’s degree program.

• “Graduate Student Research Progress Tracking Report”: a written record of a meeting attended by the graduate student, his or her supervisor(s) and a member of the supervisory committee or a representative from the academic unit at which objectives for the upcoming year are established and prior progress recorded and evaluated.

• “Failure”: withdrawal from the University due to unsatisfactory standing.

• “Student”: a student registered in a graduate degree program (including those registered in a Qualifying Year).

Failure Policy
A Student will be withdrawn from the University, if he or she:

a. fails two Courses (i.e., two different Courses, one failed Course plus a failed repeat of the same Course or one failed Course and a failed supplemental exam for that Course); or

b. obtains two unsatisfactory Graduate Student Research Progress Tracking Reports and the academic unit in which the student is registered recommends that he or she be withdrawn; or

c. fails one course, obtains one unsatisfactory Graduate Student Research Progress Tracking Report and the academic unit in which the student is registered recommends that he or she be withdrawn.

The Student’s transcript will thereafter indicate that the student was withdrawn from the University.

Students in a Qualifying Year
Failing a course in a Qualifying Year is equivalent to failing a Course in a graduate program, and counts as a first failed Course if a Student is subsequently admitted to a graduate program in a related field.

Readmission
A Student withdrawn according to this Policy cannot apply for readmission to the program from which he or she was withdrawn.

Senate, October 11, 2000.
Revised by GPS Council, February 10, 2003; February 9, 2015.

1.2.2.1 Procedure to follow in cases of failure

In the event of a first failure (including an unsatisfactory Progress Tracking Report):

• For a failed course, the academic unit (department) must:
  • Ensure that the failing grade is recorded on the student's record (if a course);
  • complete the web form Recommendation following a First Failure to indicate whether the student will:
    • write a supplemental examination (if academic unit (departmental) policy permits); or
    • retake the failed course; or
    • substitute the failed course by completing an equivalent course.

• For an unsatisfactory Progress Tracking Report, the academic unit (department) must:
  • Complete the web form Recommendation following a First Failure to record this first failure in the student's file.
IMPORTANT: The student will receive a copy of their academic unit’s (department’s) web form submission as the official notification of their first failure.

In the event of a second failure (including failure of a supplemental exam or an unsatisfactory Progress Tracking Report):

- The second failing grade must be recorded on the student’s record (if a course or supplemental exam);
- After the academic unit (department) has met with the student regarding their unsatisfactory status, they must complete the web form Withdrawal Recommendation following a Second Failure to recommend to Management of Academic Records Unit, Enrolment Services that the student must be withdrawn from their program;
- Upon receipt of the Graduate Program Director’s recommendation, Enrolment Services will send the student an official withdrawal letter and change the status to Withdrawn on the student’s academic record.

Requesting an appeal in case of withdrawal due to failure:

A student withdrawn due to failure has 30 days to appeal this decision. It is the student’s responsibility to present evidence of their case and provide any supporting documentation, including letters of support from their thesis supervisor and Graduate Program Director. The appeal and any supporting documents will be reviewed by the Associate Dean, Graduate and Postdoctoral Studies, and the student will be notified of the decision. That decision will be final. Students should be aware that appeals are rarely awarded, and only under truly exceptional circumstances.

A student who wishes to submit an appeal must:

- Prepare a detailed letter indicating the reasons for the appeal (addressed to the Graduate Associate Dean);
- Obtain any supporting documents (addressed to the Graduate Associate Dean);
- Submit the letter, together with all supporting documents, to the attention of Heidi Emami, Associate Registrar, Enrolment Services, 3415 McTavish, before the end of this 30-day period.

Note: A student in a graduate program who has failed one course while being a Special Student in graduate studies will have this failure count as a first failure in a related graduate program. Any further failure will require withdrawal from the program of study. A student may not claim medical reasons for a course failure after the fact. In the case of an examination, a dated medical certificate or appropriate document recommending a deferral (see “Other Grades” in section 1.1.8.1: Grading and Grade Point Averages (GPA) > “L - deferred” and “LE or L* - further deferral”) must be submitted to Graduate and Postdoctoral Studies with a recommendation from the academic unit (department) for a deferral before or immediately after the examination. In particular, such recommendation will not be considered if medical reasons are brought forth after a grade is submitted. Medical reasons declared after the fact will not be considered acceptable grounds of appeal of withdrawal under the Failure Policy.

1.2.3 Graduate Student Research Progress Tracking

1. Research Progress Reporting for Doctoral Students

1.1. At least annually, there must be a progress tracking meeting at which objectives for the upcoming year are established and prior progress recorded and evaluated. For doctoral students whose committees have been formed, a member of the supervisory committee or a representative from the academic unit must also attend. Units may also use this form (available at www.mcgill.ca/gps/students/research-tracking) for master’s students in thesis and non-thesis research programs if this is a unit-wide practice.

1.2. Students should be informed of the phases through which they must pass towards the achievement of the graduate degree, the approximate amount of time each phase should take, the criteria for successful completion, and any deadlines relating to these phases.

2. Procedures

2.1. At the first annual progress reporting meeting (to be held shortly after doctoral students begin their programs), written objectives/expectations for the year must be recorded in the OBJECTIVES box on page 1 of the form. Those attending the meeting—the student, the supervisor, and, in the case of Ph.D. students whose committees have been formed, a member of the supervisory committee or a representative from the academic unit—must sign the form on page 3.

2.2. Subsequently, the student and supervisor(s), and a member of the supervisory committee or a representative from the academic unit must meet annually to review the progress that has been achieved toward the recorded objectives. Prior to these meetings, the student should record his/her accomplishments and progress for the year by completing the PROGRESS box on page 1 of the form. This completed form is then evaluated by the committee (i.e., supervisor and the member of the supervisory committee or a representative from the academic unit) on page 2 of the form. All parties sign the form on page 3. At this same meeting, objectives for the following year should be recorded in the OBJECTIVES box on page 1 of the same form.

2.3. This form may also be supplemented with unit-specific details or documents (see page 2 of the form).

2.4. If progress is judged unsatisfactory, a follow-up progress tracking meeting must occur not sooner than 4 months and not later than 6 months after the first report. A deadline for the follow-up meeting must be indicated on page 2 of the form.

2.5. Two unsatisfactory reports (not necessarily successive) constitute unsatisfactory progress towards the degree and, if recommended by the academic unit, the student will be withdrawn from the University.

2.6. A student or faculty member who refuses to sign the form must write a statement detailing his/her reasons for not signing.

2.7. In cases where the student has missed an established progress report deadline and has not responded to the unit within 4 weeks after being contacted by the academic unit, the report may be completed in the student’s absence, and progress may be judged unsatisfactory.

2.8. The student, supervisor(s), and academic unit must retain copies of the forms.
2.9. The Graduate Program Director must review and sign all Progress Tracking Reports. If the Graduate Program Director is the supervisor, then the Chair will sign.


1.2.4 Graduate Student Supervision

1. Principles

1.1. Supervision is a recognized aspect of the academic duty of teaching.

1.2. Supervision involves responsibilities on the part of both the supervisor and supervisee.

2. Supervisors and Supervisory Committees

2.1. Although procedures and timeframes for choosing supervisors and supervisory committees may vary across programs, they must be consistent within a particular program and must be made clear to students. Units should consider the availability of student support, research facilities, space, and availability of potential supervisors in determining the number of students admitted into the program.

2.2. Graduate supervision is recognized as an integral part of the academic responsibility of professors in academic units where supervision is the normal practice, and must be considered in the allocation of workload, as should the teaching of graduate courses.

2.3. Thesis supervisors must be chosen from full-time tenure-track or tenured faculty, or rank contract academic staff who have research as part of their duties. Supervisors should have competence in the student’s proposed area of research. When thesis supervisors retire or resign from the University, they cannot act as sole supervisors but may serve as co-supervisors, with the unit’s and GPS’s consent.

2.4. Emeritus Professors may not act as sole supervisors but may serve as co-supervisors, with the unit’s and GPS’s consent.

2.5. Adjunct Professors may not act as sole supervisors but may serve as co-supervisors, with the unit’s and GPS’s approval. After approval, a letter of agreement, signed by the co-supervisor and the supervisee, must be submitted to GPS. If problems arise, the McGill supervisor will be held accountable to McGill policies and regulations.

2.6. The academic unit must ensure continuity of appropriate supervision when a student is separated from a supervisor, for example, when the supervisor is on sabbatical, leaves McGill, or retires.

2.7. Ph.D. students must have a supervisory committee consisting of at least one faculty member in addition to the supervisor(s). The supervisory committee must provide, on a regular basis, guidance and constructive feedback on the student’s research (Graduate Student Research Progress Tracking).

2.8. GPS strongly recommends that all parties engaged in supervisory roles sign a letter of understanding with each supervisee.

2.9. The Chair of the academic unit should ensure that procedures are in place to address serious disagreements that may arise, for example, between a student and a supervisor or between a supervisor and committee members. Such procedures should involve a neutral mediator, such as the Graduate Program Director, who will ensure that all sides of a dispute are heard before any decision is made. If the issue cannot be resolved at the unit level, then an Associate Dean from Graduate and Postdoctoral Studies should be contacted.

3. Orientation

3.1. Supervisees: Graduate students must participate, before registration, in a mandatory online orientation that includes sections on supervisee responsibilities.

3.2. Supervisors: Professors who have not yet engaged in graduate supervision at McGill are required to participate in a supervisory orientation approved by GPS. Professors who have not supervised for 5 or more years must meet with their Chairs to determine if such orientation is necessary.


Senate, March 23, 2016.

1.2.5 Graduate Studies Reread Policy

This policy applies only in the case of marks given for written work in 600- and 700-level courses. For 500-level courses and below, the reread policy of the appropriate undergraduate faculty applies. This policy covers exams and other written work (essays/papers, assignments, and lab reports). This policy does not apply to Ph.D. comprehensive examinations. See the section 1.2.9: Ph.D. Comprehensives Policy for more information.

I. Consultation

In accordance with the Charter of Students’ Rights (available at www.mcgill.ca/secretariat/policies-and-regulations), and subject to the conditions stated therein, graduate students have the right, subject to reasonable administrative arrangements, “to consult any written submission for which they have received a mark and to discuss this submission with the examiner.” Upon request by the student, the instructor of the course is obliged to conduct this consultation with the student.

Note: Where materials have been graded by a TA and the student wants a reconsideration of the grade, the faculty member responsible for the course is expected to review the materials and the appropriateness of the grade. This is so even if the materials in question have already been discussed by the TA with the student.

II. Verification

In a case where a student feels that totalling errors have been made in arriving at the final grade, the student can request the instructor to carry out a detailed check that all questions have been marked and that the final grade has correctly been computed on the basis of the term work, final examination, etc.
III. Rereads

According to the Charter, students have the right, subject to reasonable administrative arrangements, “to an impartial and competent review of any mark” (hereafter “reread”).

At the time the request for a reread is made, the student should have already met with the faculty member responsible for the course to review the mark, or made a reasonable attempt to do so.

Rereads can only be requested if a change upwards in the letter grade for the course is possible as a result of the reread. An essay/paper, assignment, or lab report must account for more than 20% of the course grade to be eligible for a reread.

The reread by a second reader is a review of the mark, not the work assigned. It is the second reader’s task to determine whether the original mark is fair and reasonable, not to give the work a totally new assessment.

1. The time limit for requesting a reread is within 30 days after posting of the final marks for the course. However, in the case of work which has been graded during the course and returned to the student, students must indicate their intention to request a reread by writing to Graduate and Postdoctoral Studies within 5 working days of receiving the graded work. This intention must be confirmed within 30 days of the posting of the final marks for the course.

Note: Material that has been returned to a student cannot be reread unless arrangements have been made to ensure that the material has not been changed subsequent to the original grading; for example, the student can make a copy for the professor to retain either before handing the material in or immediately upon receiving it back from the instructor or at the point where the professor and student review the work together. Instructors are strongly advised to write their corrections in red pen and to write comments which help the student to understand the mark assigned.

2. The request for a formal reread must be made by the student in writing to Graduate and Postdoctoral Studies and should specify the reasons for the request. It should include a statement indicating that the student has already met with the faculty member responsible for the course to review the mark or indicating why this has not been possible. The reread fee will be charged directly to the student’s fee account after the result of the reread is received; this will be reimbursed if there is an upwards change in the letter grade for the course. The reread fee amount and other details can be found on the Student Accounts website.

3. a) Administration of the reread is handled by Graduate and Postdoctoral Studies, not by the department. Graduate and Postdoctoral Studies will contact the department to obtain the course syllabus, the work to be reread, a list of potential readers, and details of the marking. The list of potential readers must be approved by the Department Chair or Graduate Program Director. The Chair or Graduate Program Director must, as well, vouch for the impartiality of these readers. All communication with the second reader is conducted by Graduate and Postdoctoral Studies.

b) The second reader is given the course syllabus, the original assignment with marginalia, corrections, summary comments, and mark intact, as well as any notes from the instructor pertinent to the general nature of the course or the assignment and grading schemes, etc.

4. The student’s and the instructor’s names are blanked out to reduce the possibility of prejudice and to help meet the requirements of the Charter of Students’ Rights (available at www.mcgill.ca/secretariat/policies-and-regulations) that the review be impartial. The rereader’s name will not be made known to the student or instructor at any time; the student’s name will not be made known to the rereader at any time.

5. a) The second reader should support his or her assessment with a brief memorandum to Graduate and Postdoctoral Studies. As a result of the reread process, the grade may become higher or lower or remain unchanged. The grade submitted by the second reader shall replace the original grade. The reread grade cannot be challenged.

b) In the case of requests for rereads of group work, all members of the group must sign the request, indicating that they agree to the reread. In the event that members of the group are not in agreement, the written request should indicate which students are requesting the reread and which students do not wish for a reread. In such cases, the outcome of the reread (whether positive or negative) will affect only the students who had previously agreed to the reread. Neither the reread grade nor the decision to opt in or out of the reread can be challenged.

6. The new grade resulting from the review will be communicated to the student in a letter from Graduate and Postdoctoral Studies, with a copy to the academic unit.

Prepared by the Committee on Graduate Programs, Supervision and Teaching.

Approved by Council of FGSR, May 12, 1995.


1.2.6 Guideline on Hours of Work

In order to maintain full-time status, a graduate student should not work more than 180 hours per term over 15 weeks with 12 hours per week.

1.2.7 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/continuingstudies/programs-and-courses/languages and the French Language Centre at www.mcgill.ca/flc, and in Summer Studies and Continuing Studies. There are special language requirements for Faculty of Education students; see Faculty of Education.
1.2.8 Leave of Absence Status

1.2.8.1 Graduate and Postdoctoral Leave of Absence Policy

A leave of absence may be granted for reasons such as:

- maternity or parenting
- personal or family health
- professional development (graduate students only)
- required military service (graduate students only)
- employment that precludes progress towards the degree (graduate students only)

A leave must be requested on a term by term basis and may be granted for a period of up to 52 weeks.

Students and postdocs must submit a request, by completing the appropriate web form, to their department along with supporting documentation justifying the leave. The department shall forward the request for approval to Enrolment Services, Management of Academic Records.

A status of “leave of absence” will display on the records of students and postdocs during the specified period of the authorized leave.

It remains the student's responsibility to verify his/her record; in particular, as it pertains to term and course registration to ensure that the accurate information is reflected.

During a leave of absence for parental or familial reasons, a student will not be eligible to take courses but he/she may request and expect guidance on thesis and research work. Students and postdocs will have free access to the University's academic facilities. Library services will continue to be available by registering at the Humanities and Social Sciences Library (McLennan-Redpath).

During a leave of absence for personal health reasons, a student will not be eligible to request guidance on thesis and research work or to take courses. Students and postdocs will not have access to the University's academic facilities but library services will normally continue to be available by registering at the Humanities and Social Sciences Library (McLennan-Redpath).

NOTES:

- Requests for a leave of absence due to health, familial, or parental reasons must be supported by a medical certificate.
- Requests for a leave of absence due to professional development are for activities that preclude progress toward the degree.
- A request for leave without proper justification and supporting documents will not be considered.
- A request for retroactive leave of absence will not be considered.
- No tuition fees will be charged for the duration of the authorized leave.
- Research supervisors are not obligated to remunerate students and postdocs on leave.
- In order to be covered by the graduate supplemental health insurance and/or international health insurance during a leave, The Post Graduate Student Society (PGSS) and/or International Student Services must be contacted to make arrangements. Additional student society fees must be paid in order to be considered as a member and to be eligible for the insurance plans. For information about the PGSS supplemental health and dental coverage, click here. For information about international health insurance, click here.
- A postdoc requesting a personal health or parental leave will extend his/her five-year eligibility term for registration. If granted, the leave must not exceed an eligibility window of 10 years from the date the Ph.D. degree was awarded.
- If you would like to request confidentiality of your medical condition, you may contact the Associate Dean of Graduate and Postdoctoral Studies for advice before submitting your request for leave.
- For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended.
Leave vs. Residency Requirements

A leave in a residency term may be requested; however, upon return and re-registration in the program, it is the student’s responsibility to ensure that the missing residency requirements are completed. A leave indicates a break in the program.

For more information on residency requirements refer to the section 2.5: Program Requirements page, which appears under each faculty or school’s graduate section.

Applying to Graduate Following a Leave

If on leave of absence during the Fall term, the student must register for an active term of study in the Winter term (at least) in order to apply for graduation.

If on leave of absence during the Winter and/or Summer terms, the student must register for an active term of study in the Fall term (at least) in order to apply for graduation.

Funding Council Leave Policies for Graduate and Postdoctoral Fellowships

A summary table of various leave policies (paid or unpaid) for students and postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid; see information on the “Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

Procedure for Requesting a Leave

To submit a request for leave to the department, the student or postdoc must:

- complete the Request for a Leave web form available at: www.mcgill.ca/student-records/forms; and
- submit the necessary supporting documents (e.g., a medical certificate, proof of employment, proof of mandatory military service) to the graduate department.

Once the department has received and reviewed the request and supporting documents, if the request is justified, a recommendation for approval will be sent via email to Enrolment Services, Management of Academic Records.

The student or postdoc will be notified once his/her record has been updated to indicate the leave.

NOTES:

- A medical certificate must contain at least the following items:
  - the student or postdoc’s name, as well as complete contact information for the physician;
  - a clear statement by the physician justifying the student or postdoc’s inability to perform his/her academic duties, with start and end dates;
  - if the request is submitted during a term for which the leave is requested, a clear explanation as to why the health condition(s) in question did not prevent the normal performance of academic duties at the beginning of the term.

- Requests without supporting documentation will **not** be considered.

1.2.9 Ph.D. Comprehensives Policy

Preamble

The majority of doctoral programs at McGill require candidates to pass a comprehensive examination or set of examinations or equivalent, such as qualifying examinations, preliminary examinations, candidacy papers, comprehensive evaluations, thesis proposals, etc. The results of this examination determine whether or not students will be permitted to continue in their programs. The methods adopted for examination and evaluation and the areas to be examined are specified by departmental regulations and approved by Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details.

Objectives and Content

The purpose of comprehensive examinations is to determine whether the student demonstrates the necessary research skills and academic achievements to continue in the Ph.D. program. Objectives may include assessing one or more of the following:

- knowledge of the discipline
- understanding of the proposed field of research
- ability to conduct independent and original research
- ability to present and defend material orally
- professional skills

The content of the comprehensive must be consistent with the stated objectives and should be appropriately circumscribed. Students must be given an indication of the range of material that may be covered in the examination and suggestions as to how to cover this material (e.g., via reading lists, courses, etc.).

Format

Units must provide doctoral students with a written description of the Ph.D. comprehensive process, detailing objectives and content, format, timing, assessment, grading and reporting, failures (and procedures for repeats).
The format of the comprehensive must be consistent for all students within a given program. The following list gives some of the more common formats, which are often combined:

- written examination
- take-home examination
- extended research paper(s)
- written research proposal
- oral examination (which may include or consist of a defence of a research paper or research proposal)

Timing

Units must clearly specify when the comprehensive must be taken and how this fits into the program milestones, e.g., whether all coursework must have been completed prior to undertaking the comprehensive and/or whether the comprehensive is the final step before thesis research and writing.

Scheduling of the comprehensive must be specified by the unit and must be completed in PhD3. Students must be informed of the date of the exam with sufficient time to prepare for it.

Assessment

Evaluation parameters must be made clear, including information about who sets the exam questions and who evaluates the student. If performance is assessed by a committee, it must be made clear how the committee is appointed and who sits on it, and how the evaluation is to be carried out (consensus or vote).

Where there is more than one component to the examination (e.g., an oral exam plus a written exam), it must be made clear how these components are factored into the final grade. For example, it must be clearly specified whether each component counts equally, whether the assessment is global, and whether failure of one part of the comprehensive examination (or of one question) results in an overall failure.

All Ph.D. comprehensives must be represented by an administrative course number, usually XXXX 701. Grading of this course can be Pass/Fail or letter grades can be assigned: the same form of grading must be applied to all students in a program. A passing grade is required for students to continue in the program.

Feedback

The assessment and reasons for the decision, including identifying specific strengths and weaknesses, must be documented and provided to the student in sufficient detail to allow the student to understand the decision.

In the case of oral examinations, the student should also be given feedback on presentation, logical exposition, ability to answer questions, etc. To help ensure that assessments can be put in context, units may choose to make a record of the examination (including audio or video recording) and/or to have a neutral observer, chair, or outside committee member, or to make the oral open to members of the academic unit.

Failures

In the event that the student is judged to have failed the comprehensive, units must allow, without prejudice, one repeat of the comprehensive (in whole or in part) within a minimum of four (4) months and a maximum of six (6) months. After the first failure, a grade of HH (which designates “continuing”) will be recorded on the student’s transcript. The student must be informed in writing by the department that he/she has failed the comprehensive and must be informed of conditions relating to a repeat of the examination, including the nature of the re-examination and committee membership, as well as the deadline for retaking the exam. Units have the right to specify further requirements in the event of failure, e.g., requiring students to take an additional course or courses in areas where they have shown weakness on the comprehensive.

If the student does not re-take the exam by the deadline specified by the unit, the HH will be converted into F and the student will be withdrawn from the university. In the event that the repeat comprehensive is judged to have failed, the student will receive a grade of F and will be withdrawn from the university.

Approved by Executive of Faculty of Graduate Studies and Research (FGSR) Feb. 17, 1997 and Council of FGSR March 7, 1997; Revised by GPS July 9, 2014, June 29, 2015, and June 14, 2017.

1.2.10 Readmission of Former Students

Students who have reached time limitation, who have officially withdrawn from the University by submitting a Withdrawal Form, or who are not currently registered are eligible to be considered for readmission into their program. The student’s academic unit must recommend that the student be readmitted, stipulating any conditions for readmission that it deems appropriate. If the student's unit chooses not to recommend readmission, the student may appeal to the Associate Dean (Graduate and Postdoctoral Studies). The decision of the Associate Dean (Graduate and Postdoctoral Studies) shall be final and not subject to further appeal.

Procedure: Requirements for completion of the program will be evaluated. Some of these requirements may need to be redone or new ones may be added. Fees will be based on the term of readmission up to the time limit of the degree (i.e., Master's 3 or PhD7) plus the term of readmission. Applicants should direct questions regarding fees to the appropriate Graduate Program Coordinator/Administrator.

The Request for Readmission Form and other pertinent details regarding the readmission procedure can be found on the GPS website.

Council – February 9, 2004; Revised January 18, 2016.


1.2.11 Time Limitation

Candidates for master's degrees must complete the degree within three years of initial registration. If the degree is pursued strictly on a less-than-full-time basis, it must be completed within five years of initial registration, after which the student will be withdrawn from the University.
Candidates for doctoral degrees must complete the degree by the end of PhD7. Please note that students admitted after a master’s degree are normally considered to be PhD2 and not PhD1 (direct entry). Students should contact their Graduate Program Coordinator/Administrator to confirm the number of years in which they must complete the degree.

The object of these regulations is to encourage candidates to complete their theses and qualify for their degree without undue delay. Students who do not complete their degree requirements within the time limits stated above will be withdrawn from the University and will lose their student status and access to McGill facilities and support. International students on study permits will also be required to leave Canada. Students can apply for readmission by completing and submitting the Request for Readmission webform only when they are ready to submit their thesis and will be charged fees for the term of readmission and any future terms of registration up to and including their term of graduation.

The new measures will apply to all students, including those who have reached time limitation prior to Fall 2016.

_Council of FGSR, February 2, 1996; Revised January 18, 2016._
_Senate, April 20, 2016._

### 1.2.12 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 on the [Secretariat website](#).

### 1.3 Graduate Studies at a Glance

#### 1.3.1 Graduate and Postdoctoral Degrees Offered by Faculty

McGill University offers graduate and postdoctoral programs in the following units (organized by their administering home faculty):

<table>
<thead>
<tr>
<th>Faculty of Agricultural and Environmental Sciences</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 2.11.1: Agricultural Economics</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 2.11.2: Animal Science</td>
<td>M.Sc., M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 2.11.3: Bioresource Engineering</td>
<td>M.Sc., M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 2.11.4: Biotechnology</td>
<td>M.Sc.A., Graduate Certificate</td>
</tr>
<tr>
<td>section 2.11.6: Human Nutrition</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 2.11.5: Food Science and Agricultural Chemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 2.11.7: Natural Resource Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 2.11.8: Parasitology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 2.11.9: Plant Science</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Certificate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Arts</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 3.11.1: Anthropology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.2: Art History</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Classics – see section 3.11.10: History and Classical Studies</td>
<td>N/A</td>
</tr>
<tr>
<td>section 3.11.4: Communication Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.5: East Asian Studies</td>
<td>M.A. (Ad Hoc), Ph.D. (Ad Hoc)</td>
</tr>
<tr>
<td>section 3.11.6: Economics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.7: English</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.8: French Language and Literature</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.9: Geography</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.10: History and Classical Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.11: Information Studies</td>
<td>M.I.St., Ph.D., Graduate Certificate</td>
</tr>
</tbody>
</table>
### Faculty of Arts

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 3.11.12: International Development</td>
<td>N/A</td>
</tr>
<tr>
<td>section 3.11.13: Islamic Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.14: Jewish Studies</td>
<td>M.A., Ph.D. (Ad Hoc)</td>
</tr>
<tr>
<td>section 3.11.15: Languages, Literatures, and Cultures</td>
<td>M.A., M.A. (Ad Hoc), Ph.D., Ph.D. (Ad Hoc)</td>
</tr>
<tr>
<td>section 3.11.16: Linguistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.17: Mathematics and Statistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.18: Philosophy</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.19: Political Science</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.20: Psychology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.21: Quebec Studies / Études sur le Québec</td>
<td>N/A</td>
</tr>
<tr>
<td>section 3.11.22: Religious Studies</td>
<td>M.A., S.T.M., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.23: Social Studies of Medicine</td>
<td>N/A</td>
</tr>
<tr>
<td>section 3.11.24: Social Work</td>
<td>M.Sc.A., M.S.W., Ph.D.</td>
</tr>
<tr>
<td>section 3.11.25: Sociology</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>

### Faculty of Dentistry

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 4.11.1: Dentistry</td>
<td>M.Sc.</td>
</tr>
</tbody>
</table>

### Desautels Faculty of Management

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
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</table>

### Faculty of Education

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 5.11.1: Educational and Counselling Psychology</td>
<td>M.A., M.Ed., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 5.11.2: Integrated Studies in Education</td>
<td>M.A., Ph.D., Graduate Certificate</td>
</tr>
<tr>
<td>section 5.11.3: Kinesiology and Physical Education</td>
<td>M.A., M.Sc., Ph.D. (Ad Hoc)</td>
</tr>
</tbody>
</table>

### Faculty of Engineering

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 6.11.1: Architecture</td>
<td>M.Arch., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.3: Biological and Biomedical Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.4: Chemical Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.5: Civil Engineering and Applied Mechanics</td>
<td>M.Sc., M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.6: Electrical and Computer Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.7: Mechanical Engineering</td>
<td>M.Sc., M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 6.11.8: Mining and Materials Engineering</td>
<td>M.Sc., M.Eng., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 6.11.9: Urban Planning</td>
<td>M.U.P., Ph.D. (Ad Hoc)</td>
</tr>
</tbody>
</table>

### Faculty of Law

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 8.11.1: Law</td>
<td>LLM., D.C.L., Graduate Certificate</td>
</tr>
</tbody>
</table>

### McGill School of Environment

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 7.11.1: Environment</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Faculty of Medicine

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 10.11.1: Anatomy and Cell Biology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.2: Biochemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.3: Bioethics</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Faculty of Medicine

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 6.11.3: Biological and Biomedical Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.5: Biomedical Engineering</td>
<td>Graduate Certificate</td>
</tr>
<tr>
<td>section 10.11.6: Communication Sciences and Disorders</td>
<td>M.Sc., M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.7: Epidemiology and Biostatistics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.10: Human Genetics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.11: Medical Physics</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 10.11.12: Medicine, Experimental</td>
<td>M.Sc., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 10.11.13: Medicine, Family</td>
<td>M.Sc., Ph.D. (Ad Hoc)</td>
</tr>
<tr>
<td>section 10.11.14: Microbiology and Immunology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.15: Neuroscience (Integrated Program)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.16: Occupational Health</td>
<td>M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.17: Otolaryngology – Head and Neck Surgery</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 10.11.18: Pathology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.19: Pharmacology and Therapeutics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.20: Physiology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 10.11.21: Psychiatry</td>
<td>M.Sc., Ph.D. (Ad Hoc)</td>
</tr>
<tr>
<td>section 10.11.22: Surgery, Experimental</td>
<td>M.Sc., Ph.D., Graduate Certificate, Graduate Diploma</td>
</tr>
</tbody>
</table>

### Ingram School of Nursing

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 12.11.1: Nursing</td>
<td>M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma</td>
</tr>
</tbody>
</table>

### School of Physical and Occupational Therapy

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 13.11.1: Physical and Occupational Therapy</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Certificate</td>
</tr>
</tbody>
</table>

### Schulich School of Music

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 11.11.1: Schulich School of Music</td>
<td>M.A., M.Mus., D.Mus., Ph.D., Graduate Artist Diploma, Graduate Diploma</td>
</tr>
</tbody>
</table>

### Faculty of Science

<table>
<thead>
<tr>
<th>Section</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 14.11.1: Atmospheric and Oceanic Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.2: Biology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.3: Chemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.4: Computer Science</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.5: Earth and Planetary Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Geography (Science &gt; Graduate &gt; Browse Academic Units &amp; Programs &gt; Geography)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Mathematics and Statistics (Science &gt; Graduate &gt; Browse Academic Units &amp; Programs &gt; Mathematics and Statistics)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.8: Physics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Psychology (Science &gt; Graduate &gt; Browse Academic Units &amp; Programs &gt; Psychology)</td>
<td>M.Sc., Ph.D.</td>
</tr>
</tbody>
</table>

### 1.3.2 Master’s Degrees Available at McGill

The following list shows all of the master’s degrees available at McGill, along with their prerequisites. See section 1.3.2.1: Master's Degree Programs and Specializations for more information on specific programs and options.
<table>
<thead>
<tr>
<th>Degree</th>
<th>Prerequisites</th>
</tr>
</thead>
</table>
| Master of Architecture | M.Arch. | Professional degree – McGill B.Sc.(Arch.) degree, or equivalent.  
Post-professional degree – an M.Arch. (professional degree) or equivalent  
professional degree. |
| Master of Arts | M.A. | Bachelor of Arts in the subject selected for graduate work. See appropriate unit. |
| Master of Business Administration | M.B.A. | An undergraduate degree from an approved university. See section 9.12: M.B.A. Program. |
| Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws | M.B.A. with B.C.L./LL.B. | See section 9.12: M.B.A. Program. |
| Master of Business Administration with Doctor of Medicine / Master of Surgery | M.B.A. with M.D.,C.M. | See section 9.12: M.B.A. Program. |
| Master of Education | M.Ed. | Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department. |
| Master of Engineering | M.Eng. | Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department. |
| Master of Information Studies | M.I.St. | At least a bachelor's degree from a recognized university. See section 3.11.11.3: Information Studies Admission Requirements and Application Procedures. |
| Master of Laws | LL.M. | An acceptable degree in Law or equivalent qualifications. See section 8.11.1.3: Law Admission Requirements and Application Procedures. |
| Master of Music | M.Mus. | Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study.  
Applicants to the Performance program are required to pass auditions in their specialty.  
See section 11.11.1: Schulich School of Music. |
| Master of Sacred Theology | S.T.M. | B.A. with specialization in religious studies or theology. See section 3.11.22.3: Religious Studies Admission Requirements and Application Procedures. |
| Master of Science | M.Sc. | Bachelor of Science in the subject selected for graduate work. See appropriate unit. |
| Master of Science, Applied | M.Sc.A. | A bachelor's degree in the subject selected for graduate work. See appropriate unit. |
| Master of Social Work with Bachelor of Civil Law and Bachelor of Laws | M.S.W. with B.C.L./LL.B. | See section 3.11.24.3: Social Work Admission Requirements and Application Procedures. |
| Master of Urban Planning | M.U.P. | Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See section 6.11.9.3: Urban Planning Admission Requirements and Application Procedures. |

### 1.3.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.
<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis/Non-Thesis</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master of Architecture (M.Arch.)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional</td>
<td>Non-Thesis</td>
<td>Design Studio, Design Studio – Directed Research</td>
</tr>
<tr>
<td>Post-professional</td>
<td>Non-Thesis</td>
<td>Architectural History and Theory, Urban Design and Housing</td>
</tr>
<tr>
<td><strong>Master of Arts (M.A.)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthropology</td>
<td>Thesis</td>
<td>Development Studies, Environment, Gender and Women's Studies</td>
</tr>
<tr>
<td>Art History</td>
<td>Thesis</td>
<td>Gender and Women's Studies</td>
</tr>
<tr>
<td>Classics</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Counselling Psychology</td>
<td>Non-Thesis (Professional Internship), Non-Thesis (Project)</td>
<td>N/A</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>Thesis <em>(Ad Hoc)</em></td>
<td>N/A</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Thesis</td>
<td>Health Professions Education, Human Development, Learning Sciences, School/Applied Child Psychology</td>
</tr>
<tr>
<td>Education and Society</td>
<td>Thesis, Non-Thesis</td>
<td>Gender and Women's Studies, Mathematics and Science Education (Thesis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course Work, Course Work Math &amp; Science Education, Gender and Women's Studies, Jewish Education, Project Math &amp; Science Education (Non-Thesis)</td>
</tr>
<tr>
<td>English</td>
<td>Thesis, Non-Thesis</td>
<td>Gender and Women's Studies (Non-Thesis (Project))</td>
</tr>
<tr>
<td>French Language and Literature</td>
<td>Thesis, Non-Thesis</td>
<td>Gender and Women's Studies (Thesis)</td>
</tr>
<tr>
<td>Geography</td>
<td>Thesis</td>
<td>Development Studies, Environment, Gender and Women's Studies, Neotropical Environment</td>
</tr>
<tr>
<td>German</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Hispanic Studies</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>History</td>
<td>Thesis, Non-Thesis</td>
<td>Development Studies, European Studies, Gender and Women's Studies (Thesis)</td>
</tr>
<tr>
<td>History of Medicine</td>
<td>Non-Thesis</td>
<td>Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)</td>
</tr>
<tr>
<td>Islamic Studies</td>
<td>Thesis</td>
<td>Gender and Women's Studies</td>
</tr>
<tr>
<td>Italian</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Jewish Studies</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Kinesiology and Physical Education</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Languages, Literatures and Cultures</td>
<td>Thesis <em>(Ad Hoc)</em></td>
<td>Digital Humanities</td>
</tr>
<tr>
<td>Linguistics</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mathematics and Statistics</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Medical Anthropology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Music – Music Education</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Music – Music Technology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Master of Arts (M.A.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis or Non-Thesis</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>Thesis</td>
<td>Bioethics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Development Studies, European Studies, Gender and Women's Studies, Social</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Statistics (Non-Thesis)</td>
</tr>
<tr>
<td>Psychology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Russian</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>School/Applied Child Psychology</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Sociology</td>
<td>Thesis, Non-Thesis</td>
<td>Development Studies, Gender and Women's Studies, Medical Sociology (Thesis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Development Studies, Gender and Women's Studies, Medical Sociology,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Population Dynamics (Non-Thesis)</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td>Non-Thesis</td>
<td>English or French Second Language, English Language Arts, Mathematics,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science and Technology, Social Sciences</td>
</tr>
</tbody>
</table>

### Master of Business Administration and Management Degrees (M.B.A., M.M.)

<table>
<thead>
<tr>
<th>Degree</th>
<th>Thesis or Non-Thesis</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.B.A.</td>
<td>Non-Thesis</td>
<td>Business Analytics, Finance, General Management, Global Strategy and Leadership,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing, Technology and Innovation</td>
</tr>
<tr>
<td>M.B.A. with B.C.L. and LL.B.</td>
<td>Non-Thesis</td>
<td>Finance &amp; Law, General Management &amp; Law, Global Strategy and Leadership &amp; Law,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing &amp; Law, Technology and Innovation Management &amp; Law</td>
</tr>
<tr>
<td>M.B.A. &amp; M.D.,C.M.</td>
<td>Non-Thesis</td>
<td>Management &amp; Medicine</td>
</tr>
<tr>
<td>M.B.A./Japan</td>
<td>Non-Thesis</td>
<td>Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation</td>
</tr>
<tr>
<td>E.M.B.A.</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>M.M.</td>
<td>Non-Thesis</td>
<td>Finance, Manufacturing Management</td>
</tr>
<tr>
<td>M.M./IMPM</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>M.M./IMPMHL</td>
<td>Non-Thesis</td>
<td>N/A</td>
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</tbody>
</table>

### Master of Education (M.Ed.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis or Non-Thesis</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology</td>
<td>Non-Thesis</td>
<td>Family Life Education, General Educational Psychology, General Educational</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sciences</td>
</tr>
</tbody>
</table>

### Master of Engineering (M.Eng.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis or Non-Thesis</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Biological and Biomedical</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>Environmental Engineering (Non-Thesis)</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>Environmental Engineering (Non-Thesis)</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Materials Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Master of Information Studies (M.I.St.)

The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.
| Master of Information Studies (M.I.St.) | Information Studies | Non-Thesis | Project |
| Master of Management (M.M.) | Analytics | Non-Thesis | N/A |
| Finance | Non-Thesis | N/A |
| Manufacturing Management | Non-Thesis | N/A |
| IMPM | Non-Thesis | N/A |
| IMPMHL | Non-Thesis | N/A |
| Master of Music (M.Mus.) | Music – Composition | Thesis | N/A |
| Performance | Thesis | Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting |
| Sound Recording | Non-Thesis | N/A |
| Master of Sacred Theology (S.T.M.) | A program leading to the degree of Sanctae Theologiae Magister (S.T.M.) is given in the School of Religious Studies. This degree is primarily for those who intend to enter the ministry of the Christian Church or another religious institution, or to proceed to teaching in schools. A Master of Arts program (thesis and non-thesis) is also available. |
| Religious Studies | Non-Thesis | N/A |
| Master of Science (M.Sc.) | Agricultural Economics | Thesis | N/A |
| Animal Science | Thesis | N/A |
| Atmospheric and Oceanic Science | Thesis | Environment |
| Biochemistry | Thesis | Bioinformatics, Chemical Biology |
| Biology | Thesis | Bioinformatics, Environment, Neotropical Environment |
| Biostatistics | Thesis, Non-Thesis | N/A |
| Cell Biology | Thesis | N/A |
| Chemistry | Thesis | N/A |
| Civil Engineering | Thesis | N/A |
| Communication Sciences and Disorders | Thesis | N/A |
| Earth and Planetary Sciences | Thesis | Environment |
| Entomology | Thesis | Environment, Neotropical Environment |
| Experimental Medicine | Thesis | Bioethics, Environment |
### Master of Science (M.Sc.)

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>Thesis</td>
<td>Bioethics, Medical Education</td>
</tr>
<tr>
<td>Food Science and Agricultural Chemistry</td>
<td>Thesis, Non-Thesis</td>
<td>Food Safety (Non-Thesis)</td>
</tr>
<tr>
<td>Genetic Counselling</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Geography</td>
<td>Thesis</td>
<td>Environment, Neotropical Environment</td>
</tr>
<tr>
<td>Human Genetics</td>
<td>Thesis</td>
<td>Bioethics, Bioinformatics</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Kinesiology and Physical Education</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Materials Engineering</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Medical Radiation Physics</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Thesis</td>
<td>Environment</td>
</tr>
<tr>
<td>Microbiology and Immunology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Mining and Materials Engineering</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Parasitology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Pathology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>Thesis</td>
<td>Environmental Health Sciences</td>
</tr>
<tr>
<td>Physics</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Physiology</td>
<td>Thesis</td>
<td>Bioinformatics, Chemical Biology</td>
</tr>
<tr>
<td>Plant Science</td>
<td>Thesis</td>
<td>Bioinformatics, Environment, Neotropical Environment</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Psychology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Public Health</td>
<td>Non-Thesis</td>
<td>Global Health, Population Dynamics</td>
</tr>
<tr>
<td>Rehabilitation Sciences</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Assessment (Non-Thesis)</td>
</tr>
</tbody>
</table>

### Master of Science, Applied (M.Sc.A.)

This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Science</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Bioresource Engineering</td>
<td>Non-Thesis</td>
<td>Environment, Environmental Engineering, Integrated Food and Bioprocessing</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>Non-Thesis</td>
<td>Speech-Language Pathology</td>
</tr>
<tr>
<td>Nursing</td>
<td>Non-Thesis</td>
<td>Advanced Clinical Practice, Direct Entry Nursing, Global Health, Global Health Direct Entry, Mental Health Nurse Practitioner, Neonatology Nurse Practitioner,</td>
</tr>
</tbody>
</table>
Master of Science, Applied (M.Sc.A.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis</th>
<th>Non-Thesis (Resident)</th>
<th>Non-Thesis (Distance)</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Health</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Plant Science</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Social Work</td>
<td>N/A</td>
<td>N/A</td>
<td>Non-Thesis</td>
<td>Couple and Family Therapy</td>
</tr>
</tbody>
</table>

Master of Social Work (M.S.W.)

The M.S.W. degree represents a second level of professional study in which students build competence in a chosen field of practice.

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis</th>
<th>Non-Thesis</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Partner Program, Gender and Women's Studies (Non-Thesis)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint Master of Social Work with B.C.L. and L.L.B.</td>
<td>Non-Thesis</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Master of Urban Planning

The program requires a minimum of two years residence and a three-month internship with a member of a recognized planning association.

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis</th>
<th>Non-Thesis</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Planning</td>
<td>N/A</td>
<td>Non-Thesis</td>
<td>Transportation Planning, Urban Development and Urban Design</td>
</tr>
</tbody>
</table>

Ad Hoc Master of Arts (M.A. (Ad Hoc))

<table>
<thead>
<tr>
<th>Program</th>
<th>Thesis</th>
<th>Non-Thesis</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Humanities</td>
<td>Thesis</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>Thesis</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

1.3.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See section 1.3.3.1: Doctoral Degree Programs and Specializations for specific programs and options for doctoral degrees.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Civil Law</td>
<td>D.C.L.</td>
</tr>
<tr>
<td>Doctor of Music</td>
<td>D.Mus.</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Joint Doctor of Philosophy</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Ad Hoc Doctor of Philosophy</td>
<td>Ph.D. (Ad Hoc)</td>
</tr>
</tbody>
</table>

Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.
### Doctor of Civil Law (D.C.L.)

<table>
<thead>
<tr>
<th>Options</th>
<th>Offered by Faculty/School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law</td>
<td>Faculty of Law</td>
</tr>
<tr>
<td>Air and Space Law, Comparative Law</td>
<td>Faculty of Law</td>
</tr>
</tbody>
</table>

### Doctor of Music (D.Mus.)

The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).

### Doctor of Philosophy (Ph.D.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Options</th>
<th>Offered by Faculty/School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Science</td>
<td>Bioinformatics</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Neotropical Environment</td>
<td>Faculty of Arts</td>
</tr>
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</tr>
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<tr>
<td>Atmospheric and Oceanic Sciences</td>
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<tr>
<td>Biochemistry</td>
<td>Bioinformatics, Chemical Biology</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Biology</td>
<td>Bioinformatics, Environment, Neotropical Environment</td>
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<tr>
<td>Biological and Biomedical</td>
<td>N/A</td>
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<td>Experimental Medicine</td>
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<td>Music</td>
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<td>Schulich School of Music</td>
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<td>Music Technology, Sound Recording, Theory,</td>
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<td>Occupational Health</td>
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<td>Physiology</td>
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<td>Plant Science</td>
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<td>Behavioural Neuroscience, Language Acquisition, Psychosocial Oncology</td>
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<td>Rehabilitation Science</td>
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<td>School of Physical and Occupational Therapy</td>
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<td>Faculty of Religious Studies</td>
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<td>Renewable Resources</td>
<td>Environment, Neotropical Environment</td>
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<td>Russian</td>
<td>N/A</td>
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<td>School/Applied Child Psychology</td>
<td>N/A</td>
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<td>Social Work</td>
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<td>Sociology</td>
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### Joint Doctor of Philosophy (Ph.D.)

<table>
<thead>
<tr>
<th>Program</th>
<th>Faculty/University</th>
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</thead>
<tbody>
<tr>
<td>Nursing</td>
<td>McGill / Université de Montréal</td>
</tr>
<tr>
<td>Management</td>
<td>McGill / Concordia / H.E.C. / UQAM</td>
</tr>
<tr>
<td>Social Work</td>
<td>McGill / Université de Montréal</td>
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</table>

### Ad Hoc Doctor of Philosophy (Ph.D. (Ad Hoc))

<table>
<thead>
<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Dentistry</td>
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<tr>
<td>East Asian Studies</td>
<td>Faculty of Arts</td>
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<tr>
<td>Family Medicine</td>
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<td>Italian Studies</td>
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<tr>
<td>Jewish Studies</td>
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<td>Kinesiology and Physical Education</td>
<td>Faculty of Education</td>
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<td>Psychiatry</td>
<td>Faculty of Medicine</td>
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<tr>
<td>Quantitative Life Sciences</td>
<td>Interfaculty Studies</td>
</tr>
<tr>
<td>Urban Planning</td>
<td>Faculty of Engineering</td>
</tr>
</tbody>
</table>

### 1.3.4 Postdoctoral Research

See section 2.8: Postdoctoral Research for information about postdoctoral research at McGill University.

### 1.3.5 Graduate Diplomas and Graduate Certificates

The graduate diplomas and graduate certificates listed below are programs of study under the academic supervision of Graduate and Postdoctoral Studies. The prerequisite for a diploma or certificate is an undergraduate degree in the same discipline.

The graduate diploma programs consist of at least two terms of full-time study or the equivalent.

#### Graduate Diplomas

<table>
<thead>
<tr>
<th>Program</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Research</td>
<td>Pediatric Nurse Practitioner</td>
</tr>
<tr>
<td>Mental Health Nurse Practitioner</td>
<td>Primary Care Nurse Practitioner</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td>Registered Dietitian Credentialing (R.D.)</td>
</tr>
<tr>
<td>Music Artist</td>
<td>School/Applied Child Psychology (Post-Ph.D.)</td>
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<tr>
<td>Music Performance</td>
<td>Surgical Innovation</td>
</tr>
<tr>
<td>Neonatal Nurse Practitioner</td>
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</table>

#### Graduate Certificates

<table>
<thead>
<tr>
<th>Program</th>
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</thead>
<tbody>
<tr>
<td>Air and Space Law</td>
<td>International Leadership in Educational and Administrative Development</td>
</tr>
<tr>
<td>Bioinformatics</td>
<td>Library and Information Studies</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>Post-M.B.A.</td>
</tr>
<tr>
<td>Chronic Pain Management</td>
<td>Post-M.B.A. Japan</td>
</tr>
<tr>
<td>Comparative Law</td>
<td>Professional Accounting</td>
</tr>
<tr>
<td>Digital Archives Management</td>
<td>Surgical Innovation</td>
</tr>
<tr>
<td>Driving Rehabilitation</td>
<td>Teaching English as a Second Language</td>
</tr>
<tr>
<td>Educational Leadership 1</td>
<td>Theory in Mental Health</td>
</tr>
<tr>
<td>Educational Leadership 2</td>
<td>Theory in Pediatrics</td>
</tr>
<tr>
<td>Enseignement immersif</td>
<td>Theory in Primary Care</td>
</tr>
<tr>
<td>Information Architecture and Design</td>
<td>Theory in Neonatology</td>
</tr>
<tr>
<td>Information and Knowledge Management</td>
<td>Translational Biomedical Engineering</td>
</tr>
</tbody>
</table>
All graduate regulations apply to graduate diploma and graduate certificate candidates.

**Note:** The School of Continuing Studies also offers graduate diplomas and graduate certificates that are not under the academic supervision of Graduate and Postdoctoral Studies. To see a list of programs offered, refer to Continuing Studies > Getting Started > Programs of Study.

### 1.4 Graduate Admissions and Application Procedures

Website: [www.mcgill.ca/gradapplicants](http://www.mcgill.ca/gradapplicants)

Email: servicepoint@mcgill.ca

**Deadline:** Admission to graduate studies at McGill is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. Meeting minimum admission standards does not guarantee admission. Admission decisions are not normally subject to appeal or reconsideration and are not subject to change. To be considered for entrance fellowships, where available, applicants must verify deadlines with individual academic units.

#### 1.4.1 Application for Admission

Application information and the online application form are available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply). Applicants (with some exceptions) are required to provide the names and email addresses of two instructors familiar with their academic work and who are willing to provide letters of reference in support of the application. McGill will request the reference letters on behalf of the applicant. All applicants must themselves upload an unofficial copy of their complete academic record from each university-level institution attended to date. Admitted applicants will be required to send, or ask the appropriate university authorities to send, an official certified copy of their complete, final academic record from each university-level institution attended to date. McGill graduates are not required to submit McGill transcripts. See [www.mcgill.ca/gradapplicants/apply/ready/submit](http://www.mcgill.ca/gradapplicants/apply/ready/submit) for instructions on uploading or mailing official documents to McGill. Please note that all 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, become the property of McGill University and will not be returned to the applicant or issuing institution under any circumstance.

A **non-refundable** fee paid by credit card in Canadian funds **must** accompany the online application. The fee covers up to two program choices per term. Candidates for Special, Visiting, and Qualifying status must also apply online and pay the application fee. Please note that application fees and other charges are listed on the Student Accounts website.

It is recommended that applicants submit a list of the course titles in the major subject, since transcripts often give code numbers only. **Transcripts written in a language other than English or French must be accompanied by a translation prepared by a licensed translator.** An explanation of the grading system used by the applicant's university is essential. The applicant should also indicate the major subject area in which further study is desired.

Applications and uploaded supporting documents must be submitted according to individual academic unit specifications and deadlines; see [www.mcgill.ca/gradapplicants/programs](http://www.mcgill.ca/gradapplicants/programs). International students are advised to apply well in advance of the application deadlines as immigration procedures may be lengthy. Admission to graduate studies at McGill is highly competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

The admission decision is based on the recommendation of the graduate academic unit. Depending on the academic level and strength of the application, and any special circumstances, the application may be verified by the Graduate Admissions Unit in Enrolment Services and/or reviewed by the Graduate Admissions Committee. All offers of admission have the approval of Graduate and Postdoctoral Studies, and are sent to applicants electronically by Enrolment Services.

#### 1.4.2 Admission Requirements (Minimum Requirements to be Considered for Admission)

**Note:** The following admission requirements denote the minimum standard for applicants. Some graduate academic units may require additional qualifications or a higher minimum CGPA; applicants are strongly urged to consult the academic unit concerned regarding specific requirements.

Applicants should be graduates of a university of recognized reputation and hold a bachelor's degree of recognized reputation.

The applicant must present evidence of academic achievement: a minimum standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a CGPA of 3.2 out of 4.0 for the last two full-time academic years. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program. Some academic units impose additional or higher requirements.

See [www.mcgill.ca/gradapplicants/international/apply/equivalency](http://www.mcgill.ca/gradapplicants/international/apply/equivalency) for information on grade equivalencies and degree requirements from countries in Europe and around the world. These equivalencies and requirements are provided for information only and are subject to change without notice.

#### 1.4.3 Application Procedures

**Application Checklist**

All supporting application documents and required supplemental materials must be uploaded directly to the McGill admissions processing system. See [www.mcgill.ca/gradapplicants/apply/ready/submit](http://www.mcgill.ca/gradapplicants/apply/ready/submit) for information and instructions.
GRADUATE AND POSTDOCTORAL STUDIES

2. **Application fee:** non-refundable Canadian funds payable by credit card cover up to two program choices per term. Some programs may charge additional fees. If applicable, these will be automatically charged when you submit the application form. Please note that application fees and other charges are listed on the [Student Accounts website](http://www.mcgill.ca/gradapplicants/apply/ready).
3. **Transcripts:** your complete record of study from each university-level institution you have attended to date. Uploaded copies are considered unofficial; final, official copies will be required of admitted applicants.
4. **Reference letters:** on the application form you must provide the names and email addresses of at least two professors who are familiar with your academic work. McGill will contact these referees and invite them to upload references on your behalf. N.B. some academic units require more than two referees; please consult [Admission Requirements and Application Procedures](http://www.mcgill.ca/gradapplicants/programs) for each academic unit at [www.mcgill.ca/gradapplicants/programs](http://www.mcgill.ca/gradapplicants/programs). This topic is under discussion; please check with your academic unit before you begin requesting reference letters.
5. **TOEFL, IELTS, GRE, GMAT results:** when registering for the test, please ensure that you request that results be sent directly to McGill University. McGill will then receive the results electronically, directly from the testing agency. **Note:** Since January 2015, McGill requires IELTS results to be sent electronically.

For detailed information regarding additional documents that may be required by certain academic units, please consult [Admission Requirements and Application Procedures](http://www.mcgill.ca/gradapplicants/programs) for each unit at [www.mcgill.ca/gradapplicants/programs](http://www.mcgill.ca/gradapplicants/programs).

### 1.4.3.1 Document Checklist Terms

The following terms appear on the Document Checklist and are items or documents that you may be required to upload as part of your application for admission. Please ensure that your use of certain terms conforms to the following definitions:

- **Audition:** a trial performance where a performer demonstrates their suitability or skill.
- **Curriculum Vitae:** an overview of the applicant's experience and other qualifications, including employment, academic credentials, publications, contributions, and significant achievements.
- **GMAT:** Graduate Management Aptitude Test (see section 1.4.4: Admission Tests below)
- **GRE:** Graduate Records Examination (see section 1.4.4: Admission Tests below)
- **Interview:** a conversation between the applicant and a McGill representative, using a structured, standardized approach to allow for comparison and analysis of responses from all applicants interviewed; in person, via telephone, Skype, etc.
- **Personal Statement:** an essay in which the applicant describes their reasons for applying to graduate studies and indicating qualifications, qualities, or circumstances the applicant feels to be significant; usually provides information about educational and professional goals and discusses the applicant's interest in the desired field of study.
- **Portfolio:** a collection of the applicant's best work to date, selected by them, and intended to show their mastery of a given style or variety of styles; different samples of their artistic work.
- **Recording:** an unedited recording (audio or video) of the applicant performing at least two contrasting pieces; minimum 20 minutes.
- **Research Proposal:** a detailed description of the proposed program of research, including proposed Thesis Supervisor(s); describes the research background, significance, methodology, and references; may include expected results; may include a detailed curriculum vitae.
- **TOEFL:** Test of English as a Foreign Language (see section 1.4.5: Competency in English below)
- **Writing Sample:** a recent sample of the applicant's written work, on any topic (not necessarily within the desired field of graduate study) and not necessarily previously submitted for evaluation or publication.
- **Written Work:** a sample of the applicant's written work, drawn from essays, papers or other work previously submitted for academic evaluation or publication, and falling within the desired field of graduate study.

### 1.4.4 Admission Tests

**Graduate Record Examination (GRE)**

The Graduate Record Examination (GRE) (Educational Testing Service, Princeton, NJ 08540) consists of a relatively advanced test in the candidates’ specialty, and a general test of their attainments in several basic fields of knowledge for which no special preparation is required or recommended. It is offered at many centres, including Montreal, several times a year; the entire examination takes about eight hours, and there is a registration fee. Refer to [www.ets.org/gre](http://www.ets.org/gre) for further information. Only some academic units require applicants to write the GRE examination, but all applicants who have written either the general aptitude or the advanced test are advised to ensure that official test results are sent to McGill University by the designated testing agency. This credential is of special importance in the case of applicants whose education has been interrupted, or has not led directly toward graduate study in the subject selected. In such cases, the academic unit has the right to insist on a report from the Graduate Record Examination or some similar test. High standing in this examination will not by itself guarantee admission. The Miller Analogies Test may be used similarly. Some academic units of the Faculty of Education also require the taking of various tests.

**Graduate Management Admissions Test (GMAT)**

Applicants to graduate programs in Management must ensure that official results are released to McGill by the Graduate Management Admission Council (GMAC). The test is a standardized assessment offered by the GMAC to help business schools assess candidates for admission. For further information, see [www.mba.com/global/the-gmat-exam.aspx](http://www.mba.com/global/the-gmat-exam.aspx).
1.4.5 Competency in English

Applicants to graduate studies must demonstrate an adequate level of proficiency in English prior to admission, regardless of citizenship status or country of origin.

Normally, applicants meeting any one of the following conditions are not required to submit proof of proficiency in English:

1. Mother tongue (language first learned and still used on a daily basis) is English.
2. Has obtained (or is about to obtain) an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction.
3. Has obtained (or is about to obtain) an undergraduate or graduate degree from a recognized institution in Canada or the United States of America (anglophone or francophone).
4. Has lived and attended university, or been employed, for at least four consecutive years, in a country where English is the acknowledged primary language.

Applicants who do not meet any of the above-listed conditions must demonstrate proficiency in English using one of the following options:

1. **TOEFL** (Test of English as a Foreign Language): minimum acceptable scores are:
   - iBT (Internet-based test): 86 overall (no less than 20 in each of the four component scores)
   - PBT (paper-based test): 567
   - N.B. an institutional version of the TOEFL is not acceptable.
2. **IELTS** (International English Language Testing System): a band score of 6.5 or greater.
3. **MELAB** (Michigan English Language Assessment Battery): a grade of 85% or higher.
4. University of Cambridge ESOL **Certificate in Advanced English** (CAE): a grade of “B” (Good) or higher.
5. University of Cambridge ESOL **Certificate of Proficiency in English** (CPE): a grade of “C” (Pass) or higher.

In each case, applicants must ensure that official test results are sent to McGill directly by the testing service. Applications cannot be considered if test results are not available. These scores are general minima; some academic units may set higher requirements.

Revised – July 2008

1.4.6 Admission to a Qualifying Program

Some applicants whose degree and academic standing make them very good candidates for admission to graduate studies, but who are considered inadequately prepared in the subject selected, may be admitted to a Qualifying program for a master’s. The undergraduate-level courses to be taken in a Qualifying program will be prescribed by the academic unit concerned.

Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year (i.e., two full-time terms) is permitted. In all cases, after the completion of a Qualifying year or term, an applicant interested in commencing a degree program must apply for admission by the application deadlines. Successful completion of the work in the Qualifying program (B- in all courses) does not automatically entitle the student to proceed toward a degree. Qualifying year students must apply for admission to the program for which they seek qualification.

In cases where an academic unit recommends a change of registration from Qualifying program (Fall) to Master’s Degree First Year (Winter), students must apply to the degree program by the academic unit’s Winter application deadline. A Qualifying year applicant admitted to a Winter term as a first term of studies must apply for admission for a Fall term as his/her second term of studies.

Students who are ineligible for a Qualifying program may apply to the appropriate undergraduate faculty for admission as regular or Special Students, and seek admission to graduate studies at a later date. The normal admission requirements must be met and the usual procedures followed.

1.4.7 Admission to a Second Degree Program

A candidate with a given higher degree may apply for admission to a second degree program at the same level but in a different subject. The normal admission requirements must be met and all the usual procedures followed.

1.4.8 Admission to Two Degree Programs

Students may, with special permission granted by the Graduate Admissions Committee (composed of the Dean and Associate Deans of Graduate and Postdoctoral Studies) and in consultation with the Graduate Admissions Unit of Enrolment Services, be admitted to two degree programs or to two academic units or faculties. Students are never permitted to pursue two full-time degree programs concurrently.
1.4.9 Admission to an Ad Personam Joint Program

Ad Personam joint graduate programs are restricted to Master's thesis option and Ph.D. programs. Approval for the joint program must be obtained from Graduate and Postdoctoral Studies. The request will be signed by the Chairs of both academic units involved and will explicitly list the conditions imposed. The student will undertake research under the joint supervision of both units.

This program is described in more detail at www.mcgill.ca/gradapplicants/apply/prepare#other.

1.4.10 Readmission of Former Students

Students who have reached time limitation or officially withdrawn from the university should refer to section 1.2.10: Readmission of Former Students for further information.

1.4.11 Deferral of Admission

Under exceptional circumstances, an admission for a particular semester can be considered for a deferral. Normally, the deferral period granted will not exceed one academic year (two terms). This can be considered only if the student has not registered. If the student has already registered, no deferral can be granted. The student must withdraw from the University and apply for admission to a later term.

1.5 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
Graduate Funding Unit
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Fax: 514-398-6283
Email: graduatefunding.gps@mcgill.ca
Website: www.mcgill.ca/gps/funding

The Graduate Funding Unit of Graduate and Postdoctoral Studies provides processing services for many sources of support for Canadian and non-Canadian students, both new to McGill and continuing. Further information on these and other sources of funding can be found on the Graduate and Postdoctoral Studies website.

Entrance Fellowships are awarded on the basis of the application for admission, upon nomination by academic units. Most internal fellowships are awarded in this manner—please contact the proposed academic units directly for further information.

Research assistantships, teaching assistantships, and stipends from professors' research grants are handled by individual academic units at McGill. Fellowships, assistantships, and stipends are used to make funding packages for graduate students. All assistantship and stipend inquiries should be directed to units.

A small number of citizens from countries whose governments have entered into agreements on tuition fees with Quebec may be exempted from the supplemental tuition fees normally required of international students. Availability varies for such exemptions from year to year; refer to www.education.gouv.qc.ca/en/references/studying-in-quebec/scholarships-and-exemptions, and contact your local government to find out if an agreement with Quebec is in effect. For further information and the necessary application materials, see www.education.gouv.qc.ca/en/references/studying-in-quebec. The list of organizations where students should apply can be accessed from this website.

For detailed information regarding the rules and regulations of graduate awards and fellowships administered by Graduate and Postdoctoral Studies (e.g., Tomlinson Doctoral Fellowships and Graduate Excellence Fellowships), please refer to the General Award Holder's Guide.

1.6 Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees section of this publication contains important details required by postdoctoral scholars during their studies at McGill and should be periodically consulted, along with other sections and related publications.

1.6.1 Policy on Research Ethics


1.6.2 Regulation on the Conduct of Research

1.6.3 Policy on Research Integrity

Please refer to the Policy on Research Integrity available at www.mcgill.ca/research/about/integrity.

1.6.4 Guidelines for Research Involving Human Subjects

Please refer to the guidelines for research involving human subjects available at www.mcgill.ca/research/researchers/compliance/human.

1.6.5 Guidelines for Research with Animal Subjects

Please refer to the guidelines for research involving animal subjects available at www.mcgill.ca/research/researchers/compliance/animal.

1.6.6 Policy on Intellectual Property


1.6.7 Regulations Governing Conflicts of Interest

Please refer to the regulations governing conflicts of interest available at www.mcgill.ca/secretariat/policies-and-regulations.

1.6.8 Safety in Field Work


1.6.9 Office of Sponsored Research


1.6.10 Postdocs

Please see www.mcgill.ca/gps/postdocs.

1.6.11 Research Associates

A Research Associate is a senior career researcher who usually works independently, in most cases has a Ph.D. or equivalent, and is often supported directly by outside granting agencies.

For more information, see www.mcgill.ca/apo/new-tsas-guide/research#EMPLOYING.

1.7 Student Services and Information

McGill offers a full range of student services and resources that support your life, learning, personal, and academic achievements.

1.7.1 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.

Some of 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.

1.7.1.1 Location

3415 McTavish Street (corner Sherbrooke)
Montreal QC H3A 0C8
Telephone: 514-398-7878
Opening hours: please refer to www.mcgill.ca/students/servicepoint
Email for current students: www.mcgill.ca/students/servicepoint/studentrequestform
Email for applicants and prospective students: www.mcgill.ca/students/servicepoint/contact-us

1.7.2 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-and-regulations.

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

1.7.2.1 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 2100
Montreal QC H3A 0G3

For information, contact (Dean/Associate Dean):

Telephone: 514-398-4990
Email: deanofstudents@mcgill.ca
Website: www.mcgill.ca/deanofstudents

1.7.2.2 Office of the Senior Director, Services for Students

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 4100
Montreal QC H3A 0G3

For information, contact:

Telephone: 514-398-8238
Website: www.mcgill.ca/studentservices

The Senior Director, Services for Students (SDSS), coordinates all student services at McGill to help promote student success and well-being. The SDSS 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.

1.7.3 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:

Brown Student Services Building, Suite 4100
A list of services available is given below. For further information, see the Student Services website.

- section 1.7.3.1: Campus Life & Engagement (CL&E)
- section 1.7.3.2: Career Planning Service (CaPS)
- section 1.7.3.3: Counselling Services
- section 1.7.3.4: First Peoples’ House
- section 1.7.3.5: Health Services
- section 1.7.3.6: International Student Services (ISS)
- section 1.7.3.7: Office of Religious and Spiritual Life (MORSL)
- section 1.7.3.8: Office for Sexual Violence Response, Support, and Education
- section 1.7.3.9: Office for Students with Disabilities (OSD)
- section 1.7.3.10: Office of Sustainability
- section 1.7.3.11: Psychiatric Services
- section 1.7.3.12: Scholarships and Student (Financial) Aid Office
- section 1.7.3.13: Tutorial Service

### 1.7.3.1 Campus Life & Engagement (CL&E)
Supports all students, new and returning, and connects them to resources and opportunities that will enhance their student experience.

Brown Student Services Building, Suite 3100
Telephone: 514-398-6913
Email: cle@mcgill.ca
Website: www.mcgill.ca/cle

First-year students:
Email: firstyear@mcgill.ca
Website: www.mcgill.ca/firstyear

### 1.7.3.2 Career Planning Service (CaPS)
Provides career education, industry events, advising, mentoring, workshops and a comprehensive job posting system (myFuture) to help you find permanent/part-time/summer jobs and internships, explore your career or graduate education options, and build your network.

Brown Student Services Building, Suite 2200
Telephone: 514-398-3304
Email: careers.caps@mcgill.ca
Website: www.mcgill.ca/caps
myFuture: caps.myfuture.mcgill.ca

### 1.7.3.3 Counselling Services
Supports psychological wellness through groups, workshops, online resources, and short-term counselling.

Brown Student Services Building, Suite 4200
Telephone: 514-398-3601
Email: counselling.service@mcgill.ca
Website: www.mcgill.ca/counselling

### 1.7.3.4 First Peoples' House
Promotes and supports Indigenous student success and well-being in a culturally welcoming environment.

3505 Peel Street
Telephone: 514-398-3217
1.7.3.5 Health Services
Provides access to physicians, nurses, and a dietician who offer health services and information in a confidential atmosphere. Also operates a laboratory offering a wide array of testing.

Brown Student Services Building, Suite 3300
Telephone: 514-398-6017
Website: www.mcgill.ca/studenthealth

1.7.3.6 International Student Services (ISS)
Offers support to international students; orientation and transition programs; and immigration and health insurance information.

Brown Student Services Building, Suite 5100
Telephone: 514-398-4349
Email: international.students@mcgill.ca
Website: www.mcgill.ca/internationalstudents

1.7.3.7 Office of Religious and Spiritual Life (MORSL)
Connects students from various religious backgrounds with their on-campus communities and faith liaisons. Provides students with space and resources to explore spirituality, and educates students on how to thrive in a pluralistic society.

Presbyterian College, 3495 University Street, 2nd floor
Telephone: 514-845-1331
Email: morsl@mcgill.ca
Website: www.mcgill.ca/morsl

1.7.3.8 Office for Sexual Violence Response, Support, and Education
Confidential, non-judgmental, and non-directional support for students, faculty, and staff of all genders impacted by sexual and gender-based violence. Services offered in both French and English.

550 Sherbrooke W., Suite 585 (West Tower)
Telephone: 514-398-3786; 514-398-4486
Email: svoffice@mcgill.ca
Website: www.mcgill.ca/osvrse

1.7.3.9 Office for Students with Disabilities (OSD)
The Office for Students with Disabilities (OSD) provides learning assessment, support services, and reasonable accommodations to undergraduate, graduate, and postdoctoral students with documented disabilities, mental health issues, chronic illnesses, or other impairments, whether they be temporary, permanent or episodic.

Main Office
1010 Sherbrooke St. W., Suite 410
Telephone: 514-398-6009
Email: disabilities.students@mcgill.ca

Exam Centre
Redpath Library Building, 3459 McTavish St., Suite RS-56
Telephone: 514-398-2480
Email: exams.osd@mcgill.ca
Website: www.mcgill.ca/osd

1.7.3.10 Office of Sustainability
Supports McGill's goal to become an institutional model of sustainability for society. Whether you have a project in mind, or just a lot of questions, there are many ways for you to get involved with sustainability at McGill. Stay up to date via our Facebook and Twitter pages, and by signing up to receive our monthly e-newsletter.
1.7.3.11 Psychiatric Services
Supports students' mental health and psychological well-being

Brown Student Services Building, Suite 5500
Telephone: 514-398-6019
Website: www.mcgill.ca/psychiatric-services

1.7.3.12 Scholarships and Student (Financial) Aid Office
Provides assistance in the form of bursaries, loans, and Work Study programs to students requiring financial aid; administers government aid programs; and promotes financial wellness through tools and workshops.

Brown Student Services Building, Suite 3200
General Information: 514-398-6013
Telephone: 514-398-4807 (Scholarships)
Email: student.aid@mcgill.ca
Website: www.mcgill.ca/studentaid

1.7.3.13 Tutorial Service
Sponsors an extensive peer matching tutoring program for students.

Brown Student Services Building, Suite 4100
Telephone: 514-398-8238
Email: tutoring.service@mcgill.ca
Website: www.mcgill.ca/tutoring

1.7.4 Student Services – Macdonald Campus
Students who study on the Macdonald campus may make full use of all Student Services on both campuses. All Student Services at Macdonald Campus are located in the Centennial Centre:

Centennial Centre, Room 124
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Telephone: 514-398-7992
Email: stuserv.macdonald@mcgill.ca
Website: www.mcgill.ca/macdonald-studentservices

A list of services available is given below. For detailed information, please visit our website and the main Student Services website.

- section 1.7.4.1: Career Planning Service (CaPS)
- section 1.7.4.2: Counselling Services
- section 1.7.4.3: International Student Services (ISS)
- section 1.7.4.4: Office for Students with Disabilities (OSD)
- section 1.7.4.6: Student Health Services
- section 1.7.4.7: Student Financial Aid
- section 1.7.4.8: Other Services

1.7.4.1 Career Planning Service (CaPS)
Provides career education, industry events, advising, mentoring, workshops, and a comprehensive job posting system (myFuture) to help you find permanent/part-time/summer jobs and internships, explore your career or graduate education options, and build your network.

Telephone: 514-398-7582
1.7.4.2 Counseling Services
Supports psychological wellness through groups, workshops, online resources, and short-term counselling.

Telephone: 514-398-7992
Website: www.mcgill.ca/counselling

1.7.4.3 International Student Services (ISS)
International Student Services Advisors are available (twice a month during the school year) to discuss immigration processes and documentation, and advise on additional ISS programming. Information and distribution of Health Insurance Cards (Blue Cross) also available.

Telephone: 514-398-7992
Website: www.mcgill.ca/macdonald-studentservices/our-services

1.7.4.4 Office for Students with Disabilities (OSD)
Offers support to students experiencing barriers to their academic success related to a disability, mental health condition, chronic illness, or other impairment. An Access Services Advisor is present at Mac campus at least once per month during the academic year to discuss students' barriers and determine if academic accommodations can be put in place. Appointments can also be made via Skype through the downtown office.

Telephone: 514-398-7992 (Mac) 514-398-6009 (downtown)
Website: mcgill.ca/osd

1.7.4.5 Office of Religious and Spiritual Life (MORSL)
Through a volunteer MacDonald campus liaison, MORSL connects students who identify as religious with their on-campus communities and faith liaisons. Provides students with resources to explore spirituality and non-denominational de-stress activities.

Contact via email: cowanvl@gmail.com

1.7.4.6 Student Health Services
Offers a walk-in clinic for urgent care and regular appointments with health professionals in a confidential atmosphere.

Telephone: 514-398-7992
Website: (Macdonald campus) www.mcgill.ca/macdonald-studentservices/feeling-sick
Website: (Downtown campus) www.mcgill.ca/studenthealth

1.7.4.7 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 Financial Aid Counsellor to help students with specific financial concerns.

Telephone: 514-398-7992
Website: www.mcgill.ca/studentaid

1.7.4.8 Other Services
Office of Sustainability
McGill's Office of Sustainability, located in the Downtown campus, sends representatives to Macdonald campus every month to support McGill's goal to become an institutional model of sustainability for society. Whether you have a project in mind, or just a lot of questions, there are many ways for you to get involved with sustainability at McGill. Stay up to date via our Facebook and Twitter pages, and by signing up to receive our monthly e-newsletter.

Telephone: 514-398-2268
Email: sustainability@mcgill.ca
Website: www.mcgill.ca/sustainability
1.7.5 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

1.7.5.1 Graduate Housing – Downtown

Student Housing and Hospitality Service
3415 McTavish
Montreal QC H3A 0C8
Telephone: 514-398-6368
Fax: 514-398-3683
Email: housing.residences@mcgill.ca
Website: www.mcgill.ca/shhs

McGill University offers two main types of housing for graduate students: single-occupancy apartments and single bedrooms in houses with shared facilities. No family housing is available. Only a limited number of graduate spaces are available. Out of 160 spaces, approximately 70 become vacant annually. Availability is on a first-come, first-served basis, and you must be admitted or recommended for admission to be considered. To apply, indicate “Yes” in the housing request area of your McGill application and check Minerva for updates in your housing status. Move-in weekend is August 25 and 26, 2018, and the lease term is from September 1, 2018 to July 31, 2019.

1.7.5.1.1 Single-Occupancy Apartments

Graduate housing includes a seven-storey apartment block and three small apartment buildings. All are located within short walking distance of the main campus.

Each apartment has its own bathroom and kitchen with refrigerator, stove, dining table, and chairs. Other furnishings include: a single-sized bed and mattress, desk and study chair, dresser, bookshelf, night table, and vertical blinds (furnishings may vary depending on room size). Electricity, hot water, heating, and Internet are included in the rent.

1.7.5.1.2 Shared-Facilities Housing

There is a variety of graduate housing options with shared facilities. For example, students can live in a former coach house of one of the largest mansions in Montreal’s “Golden Square Mile,” or in a number of brownstone mansions featuring wood paneling, decorative moldings, and elaborate ornamental fireplaces. This type of housing offers graduate students the privacy of their own bedroom along with the benefits of communal living such as large kitchens and common rooms where housemates gather to dine and watch TV.

McGill offers all-female, all-male, and co-ed graduate accommodation.

1.7.5.2 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
Email: residences.macdonald@mcgill.ca
Website: www.mcgill.ca/students/housing/rez-options/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. Included in the room rent is high-speed Internet service.
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.

1.7.5.2.1 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 2018–2019 session had not been set at the time this publication was finalized. The 2017–2018 session rates for Laird Hall were: $3,864 (double occupancy) and $4,240 (single occupancy). Rates for the EcoResidence varied from $4,568 (sixplex) to $4,704 (duplex). The rate for a 12-month graduate lease for a duplex is $555 per month. An updated fee sheet will be available on the Macdonald residence website at www.mcgill.ca/students/housing/fees-applying/mac-fees.

There is no meal plan offered on the Macdonald Campus. Students may, however, load their One Card to purchase meals; refer to www.mcgill.ca/onecard for more information. Meals are also available on a cash basis from the Café Twigs, 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 $3,500.

1.7.5.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from August 26, 2018 to April 30, 2019. 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. Floor Fellows may be admitted before the opening date of courses, if permission is granted by the Campus Housing Office.

1.7.5.2.3 Facilities for Non-Resident Students – Macdonald Campus

The Centennial Centre features common lounging areas such as the Eco-Niche CC Lobby, and when available, the Ceilidh. Lockers are available in the Macdonald-Stewart Building. You can rent them at the Students’ Society Office in Centennial Centre. Twigs Café is located on the ground floor between the Macdonald-Stewart Building and Barton Library.

Note: Non-resident students cannot stay overnight in any residence without permission from the Campus Housing Office.

1.7.5.2.4 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 3:45 p.m.

Daily passes for students are $6 and can be purchased at the Upper Gravel Lot and the Horticulture parking lot. Half-day passes are $4 and can only be purchased at the meter (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.

1.7.6 Athletics & Recreation

1.7.6.1 Downtown Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment. Facilities include:

- gymnasium
- fully-equipped fitness centre
- varsity weight room
- pool
- arena
- fieldhouse
- stadium
- indoor and outdoor running tracks and tennis courts
- squash and racquetball courts
- spinning, fitness, and martial arts studios
- various playing fields
- small groups and one-on-one training spaces
- gender-neutral changing spaces and bathrooms

McGill students can participate in instructional, recreational, intramural, and intercollegiate activities, as well as sports clubs. There are nominal fees for instructional courses, intramurals, sports equipment rentals, and membership to the Fitness Centre. Sporting equipment (x-country skis, snowshoes, racquets, balls, etc.) is available for loan or rent.
McGill Sports Complex
475 Pine Avenue West
Telephone: 514-398-7000
Email: perry.karnofsky@mcgill.ca (recreational sports) or lisen.moore@mcgill.ca (varsity sports)
Website: www.mcgillathletics.ca
Facebook: www.facebook.com/mcgillathleticsandrecreation
Twitter: www.twitter.com/McGillAthletics

1.7.6.2 Macdonald Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment, free of charge. Facilities include:

- gym
- fitness centre
- arena
- tennis courts
- playing fields
- outdoor TrekFit gym
- outdoor volleyball court
- large expanses of green space
- Mac Paddle Shack

Students can participate in instructional, recreational, intramural, and intercollegiate activities. There are nominal fees for intramurals and fitness courses. Sporting equipment (x-country skis, snowshoes, stand up paddle boards, kayaks, canoes, Frisbees, balls, etc.) is available for loan or rent.

Athletics offices are located in the Stewart Athletic Complex, just west of the Centennial Centre.

Stewart Athletic Complex
Telephone: 514-398-7789
Website: macdonaldcampusathletics.ca
Facebook: www.facebook.com/Mac-Athletics-and-Recreation-559732057427796/?fref=ts

1.7.7 Ombudsperson for Students

The Office of the Ombudsperson for students offers confidential, informal, independent, and impartial dispute resolution services to all members of the student community by providing information, advice, intervention, and referrals.

The mandate of the Ombudsperson for Students at McGill University is to intervene at any point and attempt to resolve issues informally before proceeding to more formal processes. To consult the mandate, visit the website of the Office of the Ombudsperson for Students.

Office of the Ombudsperson
3610 McTavish
Main Floor, Suite 14
Telephone: 514-398-7059 (for an appointment)
Website: www.mcgill.ca/ombudsperson

1.7.8 Extra-Curricular and Co-Curricular Activities

Student associations and University units at McGill host over 300 activities, clubs, and services that students may join. These include:

- international clubs;
- leadership groups;
- peer support programs;
- student government societies;
- religious groups;
- political clubs;
- communications and media groups such as the CKUT radio station, the McGill Tribune, and the McGill Daily;
- science clubs;
- literary, theatrical, and musical societies;
athletic, recreational, and outdoor activity/sports groups;
...and many more.

An overview of extra-curricular activities at McGill is available on Campus Life & Engagement’s Engage McGill site. myInvolvement is an online tool for McGill students to find current involvement opportunities on campus. Students can then record their involvement in eligible activities, workshops, volunteer opportunities, and leadership positions on their Co-Curricular Record (CCR).

1.7.8.1 University Centre, Thomson House, and Centennial Centre

The University Centre, 3480 McTavish Street, provides club rooms for many extra-curricular activities in a four-storey building with dining options, a ballroom, lounges, and a black box theatre. Activities for graduate students are centred in Thomson House at 3650 McTavish Street.

On the Macdonald campus, facilities are located in the Centennial Centre; a list of student services and activities on the Macdonald campus is available at Agricultural & Environmental Sciences > Undergraduate > About Agricultural and Environmental Sciences (Undergraduate) > : Student Information.

1.7.9 Bookstore

1.7.9.1 Downtown Campus

The Le James – McGill Bookstore sells new and used textbooks, a full range of books for the academic and professional community, stationery supplies, technology, and McGill clothing and gift items. Visit the Le James website to sign up for email reminders so you are the first to know about services such as used textbook buyback and other events.

The Le James – McGill Bookstore operates in multiple locations. Please visit the Le James website for details and directions.

Course Materials and General Books
3544 Parc Avenue
Telephone: 514-398-8354

Clothing, Technology, and Continuing Studies Course Materials
680 Sherbrooke Street West
Telephone: 514-398-5025

Mobile Store (Seasonal)
McGill Lower Campus
Webstore: lejames.ca

1.7.9.2 Macdonald Campus

Located on the main floor of the Centennial Centre, the Robber’s Roost Bookstore carries textbooks and course materials for Macdonald Campus classes. McGill and Macdonald clothing and insignia items are also available.

Robber’s Roost Bookstore
Macdonald Campus Centennial Centre
Telephone: 514-398-8300
Website: mcss.mcgill.ca/bookstore

1.7.10 Computer Store

All technology products (hardware, software, and accessories) can now be found at Le James – McGill Bookstore located at 680 Sherbrooke. For any special orders, please contact us at sales.mcs@mcgill.ca.

1.7.11 Day Care

The McGill Childcare Centre (CPE McGill) is an independently run centre that can accommodate 110 children, ranging in age from four months to five years. Early application is required as placement is limited.

The Centre is located at:
3491 Peel Street
Montreal QC 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 QC H9X 2E3
Telephone: 514-398-7951

1.8 Fees

The information in this publication was updated in February 2018. 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-tables-and-rates.

For information on financial support, see University Regulations & Resources > Undergraduate > Scholarships and Student Aid.

Note for Graduate and Postdoctoral Studies: For information on financial support, see www.mcgill.ca/gps/funding.

1.8.1 Access to Fee Information

You can view your Account Summary by Term on Minerva. The Fall 2018 term fees will be accessible in mid-July.

1.8.2 Billings and Due Dates

Confirmation of Acceptance Deposit

In certain graduate departments, you are required to make a deposit on tuition shortly after receiving notice of your acceptance to the University. You will be required to confirm your acceptance of the offer of admission on www.mcgill.ca/accepted/nextsteps/accepting and pay the required deposit by credit card (Visa, American Express, or Mastercard) at that time.

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 other 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. 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 your McGill 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 for information on payment due dates.

<table>
<thead>
<tr>
<th>Term</th>
<th>Payment Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall term</td>
<td>August 31, 2017</td>
</tr>
<tr>
<td>Winter Term</td>
<td>January 4, 2018</td>
</tr>
</tbody>
</table>

Late Payment Charges: If you have an outstanding balance greater than $100 on your account at the end of October (end of February for the Winter term), you will be assessed a late payment charge, over and above the interest. See Penalties and Fines at www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/other.

1.8.2.1 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.

1.8.2.2 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.

1.8.3 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.

1.8.3.1 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/legal-documents 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-tuition-and-fees-information/tuition-fee-exemptions.

Note: Students who are required to submit appropriate documentation and who do not do so by the stipulated deadlines (December 1 – Fall; April 1 – Winter; August 1 – 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.

1.8.3.2 International Exemption Fees

Exemption from international tuition fees may be claimed by students in certain categories. Such students, if eligible, are then assessed at the Quebec tuition rate (certain categories may be assessed at the Canadian tuition rate). These categories, and the required supporting documentation for each of them, may be viewed at www.mcgill.ca/legal-documents. Further information regarding these reductions of international tuition fees by the Quebec government is available on the Student Accounts website at www.mcgill.ca/student-accounts/tuition-fees under Tuition & fees > General Tuition and Fees Information.

For more information concerning fee exemptions, visit www.mcgill.ca/student-accounts/tuition-fees/general-tuition-and-fees-information/tuition-fee-exemptions or contact Service Point.

1.8.3.3 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/benefits/tuition. Should you not successfully complete the courses as detailed in the policy, the fee exemption will be cancelled and you will be required to pay these fees according to regular payment deadlines.

1.8.3.4 Staff Dependent Waivers

Students who are dependents of staff members or pensioners may qualify for a fee reduction. You may find further information, including instructions on how to complete and submit the application form, at www.mcgill.ca/hr/employee-relations/policies-procedures.

The fee reduction will be credited to your McGill fee account once eligibility has been confirmed. 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/hr/employee-relations/policies-procedures.

1.8.4 Documentation

For more information on documentation, see University Regulations & Resources > Graduate > Regulations > section 1.1.12.1: Why Does McGill Collect Legal Documents from You?.

1.8.5 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.

1.8.5.1 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, Services for Students, these services, promoting student success and well-being, 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 Services; Counselling and Psychiatric Services; Counselling and Tutorial Services; the Office of Religious and Spiritual Life; Career Planning Service (CaPS); Scholarships and Student Aid; International Student Services; the Office for Students with Disabilities; Campus Life & Engagement (including assistance for francophone students); and the First Peoples' House. Please refer to section 1.7.3: Student Services – Downtown Campus and section 1.7.4: Student Services – Macdonald Campus for details on these services.

1.8.5.2 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.

1.8.5.3 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 vote on changes to Student Society fees during the Spring and Fall referendum periods. Graduate students classed as Canadian full-time or Additional Session, Thesis Evaluation, Non-Thesis Extension, as well as postdoctoral candidates, are automatically covered by their society's extended Health and Dental Plan (PGSS). Eligible students not charged automatically for insurance fees can choose to enrol themselves during the appropriate Change-of-Coverage period. For more information on what is covered by this plan, as well as enrolment, rates and opt-out procedures, and deadlines, please refer to the information contained at Studentcare toward mid-August.

Students without valid Canadian Medicare, please see International Health Insurance at www.mcgill.ca/internationalstudents/health and/or www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/insurance.

1.8.6 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 currently enrolled 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. A fee per official transcript is applicable if you have not been registered at McGill in the last 12 months. Please see www.mcgill.ca/student-records/transcripts for further information.

Copyright Fee – All students in courses and programs are charged a copyright compliance fee. This fee covers the cost of using material protected by copyright. It is levied to comply with all Quebec and Canadian copyright laws.

General Administrative Charge – This fee originated from increases in ancillary fees that were allowed by the Quebec Government. The University complies with the Quebec government's regulation on administrative fee increases by applying the same indexation factor that the government applies to tuition to this charge. A portion of the amount continues to be directed to Athletics (except in the School of Continuing Studies).

For further information about administrative charges, see www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/society-services-and-administrative-fees.

1.8.7 Other Fees

For the current year's non-tuition charges, please refer to www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges.

1.8.8 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 1.1.5: 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 1.1.5: 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.

1.8.8.1 Fee Refund Deadlines

The deadline dates for course refunds are independent of the deadline dates given for withdrawal from courses.
Note for Graduate and Postdoctoral Studies: See University Regulations & Resources > Graduate > Regulations > Registration > section 1.1.3.3: Summer Registration for information about fee refund after withdrawal from a Summer Term of Residence for newly admitted graduate students only. Otherwise, there are generally no refunds for tuition and fees charged for a Summer term course from which you have withdrawn.

1.8.8.1.1 Fall Term – up to and including September 25
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).

1.8.8.1.2 Fall Term – after September 25
No refund.

1.8.8.1.3 Winter Term – up to and including January 29
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).

1.8.8.1.4 Winter Term – after January 29
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 for contact information).

1.8.8.2 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 request a refund if you have a credit balance over $2.00. Students with awards may be subject to a waiting period for their refund until the end of course add/drop, as most awards require full-time registration. For directions on requesting your refund online in Minerva, see www.mcgill.ca/student-accounts/your-account/requesting-refund.

Note: We strongly recommend that you supply direct deposit banking information via Minerva (Canadian banks only); otherwise, a refund charge will apply.

1.8.9 Other Policies Related to Fees
The following sections describe other fee-related policies that may apply to your account.

1.8.9.1 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% (14.88% annually), multiplied by the balance outstanding after the due date (within 2–3 days). The rate is evaluated each Spring, and then is set for the following academic year. See www.mcgill.ca/student-accounts/your-account/deadlines-and-penalties/overdue for more information.

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.

1.8.9.1.1 Information for Registered Students
If you register for a term but still owe amounts from previous terms, you must either pay your previous term account balance 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 to discuss the possibility of obtaining financial aid:

Brown Student Services Building
3600 rue McTavish, Room 3200
Montreal QC H3A 0G3

Telephone: 514-398-6013
Email: student.aid@mcgill.ca
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.

1.8.9.1.2 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.

1.8.9.1.3 Cancelling Registration for Non-Payment of Previous Term(s)

In accordance with the fee policies stated in section 1.8.9.1: Overdue Accounts and section 1.8.9.1.1: Information for Registered Students, before the University cancels your current and subsequent 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 a Reinstatement Penalty for the processing of the re-enrolment; exact fee amounts and further details are available on the Student Accounts website.

1.8.9.2 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.

1.8.9.3 Deferred Admission

Students who defer their admission to the University will be subject to the tuition rates that are in effect for the term in which they are starting and not the term in which they were originally admitted. This is of interest to International students in particular programs where tuition rates have been guaranteed for the duration of their program as long as there is no break in enrolment.

1.8.9.4 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/General-Tuition-and-Fees-Information/Exchange Senior Citizens Part-time and 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.

1.8.9.5 Students Taking Courses Extra to Their Program

Students who have been given permission by their department and Enrolment Services to take courses that are considered to be extra to their primary program, must request, in writing to their department, to have those courses flagged as extra to their program, and are required to pay additional tuition charges. Such assessment of fees will be processed after normal course add/drop deadlines have passed.

Please refer to the “Extra Courses” policy found at www.mcgill.ca/student-accounts/General-Tuition-and-Fees-Information/Grad-Studies-Information

1.8.9.6 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.

1.8.9.7 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 1.1.2.13: Quebec Inter-University Transfer Agreement. The agreement covers only the transfer of academic credits.

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.
1.8.10 Sponsorships/Funding/Fee Deferrals

1.8.10.1 Students with Sponsors

If your fees will be paid by an outside agency such as the Department of Veterans Affairs, CIDA, or a foreign government, you must have written proof of this sponsorship. Your sponsor must confirm the conditions of their sponsorship in writing on company letterhead to the University. This allows the University to initiate a contract with your sponsor and effect the payment to your fee account. You need to notify the University at least one month before the beginning of the term in which the contract takes effect. For more information and the required forms, see www.mcgill.ca/student-accounts/parents-and-sponsors/third-party-sponsorship.

When a third party agrees to pay fees on behalf of a student, payment is recorded on the fee account, which reduces the balance the student must pay. The University reserves the right to insist upon payment. If the third party does not pay the promised fees within 90 days of invoicing, the student is responsible for paying the fees plus the late payment fee and accrued interest.

1.8.10.2 Students Receiving McGill Funding

Student funding 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/Award menu if you are expecting a fellowship/award.

Students who are expecting awards to be paid in early January prior to the fee deadline may reduce their payment amount by the total amount of their awards. This will avoid unnecessary credit balances to be refunded.

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

1.8.10.3 External Scholarships

Students may also receive external scholarships from other organizations, outside agencies, parents’ employers or community groups. These awards are typically sent directly to the University. Such students 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 the student’s account as soon as the student is registered, with the second instalment credited the first working day in January. If the student does not meet the requirements of the scholarship, the funds will be returned to the external body.

Students may need an anticipated scholarship to reduce their 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.

1.8.10.4 Tuition and Fees – Payment Deferral

Students with no outstanding tuition or fees from a prior term 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 website at www.mcgill.ca/student-accounts/awards-assistance/tuition-fees-payment-deferral.

Students may apply for a fee deferral via the “Defer Payment of Tuition and Fees” form through the Financial Aid/Award 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: 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.

1.8.11 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 Quebec permanent code, 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.
1.8.12 Yearly Fees and Charges

In thesis programs, students are charged a flat rate based on 15 credits per term if they are registered full-time. In non-thesis programs, students are charged a flat rate (based on 15 credits per term) if they are registered full-time, or a per credit rate if they are registered for less than 12 credits.

Exceptions: In the M.I.St., S.T.M., M.A. in Counselling Psychology (60-credit program), M.A. Teaching and Learning (Non-Thesis), M.Sc. in Public Health (Non-Thesis), M.Sc.A. in Nursing, M.Sc.A. in Occupational Therapy, M.Sc.A. in Physical Therapy, and M.Ed. programs, students are charged strictly per credit. Since Fall 2010, all newly-admitted students in the M.B.A. program are subject to a new flat-rate tuition rate structure.

Part-time, Qualifying, Special, diploma, and certificate students will be charged tuition fees at the per credit rate and will be subject to the student society fees, student services fees, and administrative charges assessed to degree students.

Students who have completed the residency requirements for their program but have not yet completed the program requirements are required to be registered in a supplementary term until graduation. Where a student is in a thesis program, this is called “Additional Session” and fees will be charged each term that they are registered, including the Summer. Students required to register in a Thesis Evaluation term upon initial submission of the thesis will be charged only society and administrative fees in each term that they must be registered. Where a student is in a non-thesis program, this is called “Non-Thesis Extension” and fees will be charged in each Fall/Winter term that they are registered. Please refer to Program Requirements > : #unique_359 and : #unique_360, found in the Graduate section of each faculty and school.

In the Summer term, students with a status of “Continuing” in a thesis program are not charged tuition fees, unless they are enrolled in courses which are considered extra to their program. Students in a non-thesis program taking courses in the Summer will be charged tuition on a per credit basis.

Non-unionized postdoctoral candidates are charged fees for membership to the Post-Graduate Students’ Society (PGSS) and Student Services fees in both the Fall and Winter terms, as well as the PGSS Health and Dental Insurance plan in the Fall term only.

Note: Please consult the Student Accounts website for the current fees payable by graduate-level students.

1.9 Information Technology (IT) Services

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 network connectivity, email, Minerva, myCourses, Microsoft Office 365, and more;
• search the McGill IT Knowledge Base for FAQs and How-To articles on all IT services. Search by keywords such as “myMcGill,” or by specific article number;
• view IT security alerts, such as phishing emails that target McGill;
• check the status of key services;
• send us your feedback or get help on an IT issue;
• read featured articles on computer security, new software, and other timely tips;
• view announcements about new services and scheduled downtimes.

1.9.1 Get Started with IT for Students

Under the Get Started tab you’ll find a section on IT services specifically for students, including the myMcGill 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 McGill-provided software.

1.10 Resources for Study and Research

Resources for study and research at McGill University include libraries, archives, museums, laboratories, and other historical collections.

1.10.1 Libraries

The McGill Library system provides access to over 6 million items, both in print and electronic formats, and consists of multiple branches, the McGill University Archives, and the McGill University Visual Arts Collection. Visit www.mcgill.ca/library/branches for a map of all our locations, and bring your McGill ID card if you wish to borrow physical items from Library collections. Access to our electronic resources (e-books, e-journals, databases, etc.) is possible anytime and anywhere. You will be prompted to enter your McGill username and password when accessing our e-resources from off campus.

The Library's website (www.mcgill.ca/library) is the portal to all our resources and services for your learning and research needs. There are thousands of databases available that you can choose from when doing a search on any topic. Librarians have created subject guides for each area of study at McGill. Each guide pulls together all the relevant resources for doing research in that field. Find your subject guide to get started. In addition, unique scholarly
materials from the Rare Books and Special Collections have been digitized and are accessible through the library’s website. Our website also provides access to items such as newspapers and McGill theses.

Friendly staff in each branch library can help you locate the information you need. Students have liaison librarians for their departments. Liaison librarians provide workshops on finding, organizing, and citing information, visit your classes to provide instruction on doing research for course assignments, and are available to assist you with your questions, whether in person, on the phone, by email, and via online chat.

Most libraries are open up to 90 hours per week, and several branch libraries extend opening hours during exam periods. The Library offers a variety of comfortable and attractive spaces, such as individual quiet study areas and group study rooms that can be booked for use. Wireless access is available throughout the library, as are hundreds of computers, and all libraries have printing, scanning, and copying machines. Facilities are available for vision and hearing impaired users.

Special library services like the Course Reserve collection located in each branch library allow you to borrow high-demand items on course reading lists. You can also borrow materials from any library and return them anywhere across the system. If you need material not owned by the McGill University Library, our Interlibrary Loan and Document Delivery Service will obtain it for you at no cost for McGill students, faculty, and staff. Interlibrary loans can be picked up at any branch.

1.10.2 McGill Writing Centre

The McGill Writing Centre (MWC) offers credit courses in academic writing that may be taken as electives or to fulfil language requirements 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 do not form part of your program requirements. 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.

Undergraduate Courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEAP 150</td>
<td>Critical Analysis and Composition</td>
<td>3</td>
<td>Instructor permission required</td>
</tr>
<tr>
<td>CEAP 250</td>
<td>Research Essay and Rhetoric</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CESL 299</td>
<td>ESL: Academic English Seminar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CESL 300</td>
<td>ESL: Academic English 2</td>
<td>3</td>
<td>Placement test required (see <a href="http://www.mcgill.ca/mwc">www.mcgill.ca/mwc</a> for details)</td>
</tr>
<tr>
<td>CESL 400</td>
<td>ESL: Essay &amp; Critical Thinking</td>
<td>3</td>
<td>Placement test required (see <a href="http://www.mcgill.ca/mwc">www.mcgill.ca/mwc</a> for details)</td>
</tr>
<tr>
<td>CESL 500</td>
<td>ESL: Research Essay and Rhetoric</td>
<td>3</td>
<td>Placement test required (see <a href="http://www.mcgill.ca/mwc">www.mcgill.ca/mwc</a> for details)</td>
</tr>
<tr>
<td>CCOM 206</td>
<td>Communication in Engineering</td>
<td>3</td>
<td>Restricted to and required for students pursuing a B.Sc. in Engineering</td>
</tr>
<tr>
<td>CCOM 314</td>
<td>Communicating Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CCOM 315</td>
<td>Writing the Internet</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Note: CEAP, CESL, and CCOM undergraduate courses are not open to students who have taken them previously under the corresponding EAPR, ESLN, and EDEC codes.

Graduate Courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEAP 642</td>
<td>Cornerstones of Academic Writing</td>
<td>1</td>
</tr>
<tr>
<td>CEAP 652</td>
<td>Fundamentals of Academic Presentations</td>
<td>1</td>
</tr>
<tr>
<td>CEAP 661</td>
<td>Literature Review 1: Summary and Critique</td>
<td>1</td>
</tr>
<tr>
<td>CEAP 665</td>
<td>Literature Review 2: Establishing Scholarly Niches</td>
<td>1</td>
</tr>
<tr>
<td>CEAP 671</td>
<td>Selected Topics in Communication 1</td>
<td>1</td>
</tr>
<tr>
<td>CEAP 672</td>
<td>Selected Topics in Communication 2</td>
<td>1</td>
</tr>
<tr>
<td>CESL 631</td>
<td>Strategies for Academic Communication in English</td>
<td>1</td>
</tr>
<tr>
<td>CESL 641</td>
<td>Fundamentals of Academic Writing in English</td>
<td>1</td>
</tr>
<tr>
<td>CESL 651</td>
<td>Pronunciation for Effective Communication</td>
<td>1</td>
</tr>
</tbody>
</table>

Course for School of Continuing Studies Students:
Course Title | Course Number | Notes
--- | --- | ---
Communication in Management 1 | CCOM 205 | Restricted to and required for students in Career and Professional Development programs offered by the School of Continuing Studies. MWC Departmental approval required.

Course in Professional Writing (CE Units):

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCOM 208</td>
<td>Professional Writing in Business</td>
<td></td>
</tr>
</tbody>
</table>

### 1.10.2.1 McGill Writing Centre Contact Information

McGill Writing Centre  
McLennan-Redpath Library  
Main Floor, Room #02  
3459 McTavish Street  
Montreal QC H3A 0C9  
Telephone: 514-398-7109  
Fax: 514-398-7416  
Website: [www.mcgill.ca/mwc](http://www.mcgill.ca/mwc)  
General Inquiries: mwc@mcgill.ca

Inquiries concerning CEAP 150, CEAP 250, CESL 500, CCOM 205 and CCOM 208 should be directed to:

Prof. Sue Laver  
Email: sue.laver@mcgill.ca  
McLennan-Redpath Library  
Main Floor, Room #02  
Telephone: 514-398-2351

Inquiries concerning CESL 299, CESL 300, and CESL 400 should be directed to:

Prof. Sarah Leu  
Email: sarah.leu@mcgill.ca  
McLennan-Redpath Library  
Main Floor, Room #02  
Telephone: 514-398-8447

Inquiries concerning CCOM 206, CCOM 314, and CCOM 315 should be directed to:

Prof. Diane Dechief  
Email: diane.dechief@mcgill.ca  
McLennan-Redpath Library  
Main Floor, Room #02  
Telephone: 514-398-3320

Inquiries concerning graduate-level courses and other aspects of the Graphos program should be directed to:

Dr. Yvonne Hung  
Email: yvonne.hung@mcgill.ca  
McLennan-Redpath Library  
Main Floor, Room #02  
Telephone: 514-398-8430

Administrative inquiries should be directed to:

mwc@mcgill.ca for undergraduate courses  
graphos@mcgill.ca for graduate courses
1.10.3 University Archives

The McGill University Archives (MUA) acquires, preserves, and makes available to students, faculty, staff and researchers (including the general public) more than 30,000 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;
- artifacts.

The MUA acquires private records to complement its collection of the University's documentary heritage and to support University research goals. The MUA manages the University's corporate memory and information assets through its records management program. This program manages the lifecycle of administrative records and protects vital evidence of University functions and activities according to federal and Quebec archives and records legislation, in addition to professional standards.

The MUA Reading Room is open Monday to Friday, from 10:00 a.m. to 6:00 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, 4th Floor
3459 rue McTavish
Montreal QC H3A 0C9
Telephone: 514-398-4711
Email: refdesk.archives@mcgill.ca
Website: www.mcgill.ca/library/branches/mua

1.10.4 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 a world cultures 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

1.10.5 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 18,845 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 15,800 objects from across Canada; and the renowned Notman Photographic Archives, which contain over 1,300,000 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 Louis Dulonpré, James Duncan, Cornelius Krieghoff, and Robert Harris. The Museum's Textual Archives include some 262 linear metres of documents relating to Canadian history. Finally, the McCord's website 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
McGill University is one of Canada's best-known institutions of higher learning and one of the leading universities in the world. With students coming to McGill from some 150 countries, our student body is the most internationally diverse of any research-intensive university in the country.

### 1.11 The University

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 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 10 faculties and 13 schools. At present over 38,000 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.

### 1.10.6 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: lyman.mcgill.ca*

### 1.10.7 Other Historical Collections

In addition to the McGill museums, there are other collections and exhibits of a specialized nature curated by McGill's [Heritage Advisory Committee](https://www.mcgill.ca/historicalcollections).

McGill began accumulating cultural property by virtue of acquisition or donation even before the university itself was established. At the Montreal Medical Institute, which became McGill’s Faculty of Medicine, specimens were collected and used as teaching tools as early as 1822. Articles published about early collections gained international recognition for faculty members such as Andrew Fernando Holmes and Sir William Dawson. Their collections and others had a major influence on building McGill’s reputation as a learned institution.

For more information, and to view the full list of historical collections at McGill, please visit [www.mcgill.ca/historicalcollections](http://www.mcgill.ca/historicalcollections).

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**UNIVERSITY REGULATIONS AND RESOURCES**

- **Website:** [Lyman Entomological Museum and Research Laboratory](http://lyman.mcgill.ca)
- **Email:** info@mccord.mcgill.ca
- **Telephone:** 514-398-7914
- **Website:** [www.mccord-museum.qc.ca](http://www.mccord-museum.qc.ca)

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117 McGill University, Graduate and Postdoctoral Studies, 2018-2019 (Published March 16, 2018)
1.11.2  Incorporated and Affiliated Colleges

1.11.2.1  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.

1.11.2.2  Affiliated Theological Colleges

Montreal Diocesan Theological College

3473 University Street, Montreal QC H3A 2A8
Principal: The Rev. Dr. Jesse Zink; B.A.(Acad.), M.A.(Chic.), M.Div.(Yale), Ph.D.(Camb.)

Presbyterian College of Montreal

3495 University Street, Montreal QC H3A 2A8
Principal: Dr. Dale Woods; M.Div.(Vancouver School of Theology), D.Min.(Luther Seminary)

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.

1.11.3  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 Nominating, Governance and Ethics 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 Principal and Vice-Chancellor is the chief executive officer of the University, appointed by the Board of Governors after consultation with a statutory committee. 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.

1.11.4  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.

1.11.5  **Governance: Board of Governors**

1.11.5.1  **The Visitor**

*The Visitor*

His Excellency The Right Honourable David L. Johnston  
**The Governor General of Canada**

1.11.5.2  **Board of Governors**

*Board of Governors*

- Ram Panda; M.Eng., M.B.A.(McG.)  
  **Chair**
- Suzanne Fortier; B.Sc., Ph.D.(McG.)  
  **Principal and Vice-Chancellor**
- Michael A. Meighen; B.A.(McG.), LL.L.(Laval)  
  **Chancellor**

1.11.5.2.1  **Members**

*Members*

- Darin Barney; B.A., M.A.(S. Fraser), Ph.D.(Tor.)
- Maryse Bertrand; Ad. E.
- Nathalie Bourque; M.B.A.(McG.)
- Michael T. Boychuk; BCom(McG.)
- Victor Chisholm; B.A.(McG.)  (*term ending June 30, 2018*)
- Peter Coughlin; BCom(Car.), M.B.A.(W. Ont.)
- Ronald Harry Critchley; B.A.(C’dia-Loyola), M.A.(York)
- Alan Desnoyers; BCom
- Kathy Fazel; BCom(McG.)  (*term ending June 30, 2018*)
- Claude Généreux; B.Eng.(McG.), M.A.(Oxf.)
- Stephen Halperin; B.C.L., LL.B.(McG.)
- David N. Harpy; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina)  (*term ending June 30, 2018*)
- Bryan Haynes; B.A., LL.B.(McG.)  (*term ending June 30, 2018*)
- Tina Hobday; B.C.L., LL.B.(McG.)
- Pierre Matuszewski; B.A.(Laval), M.B.A.(McG.)
- Samuel Minzberg; LL.B.(McG.)
- Derek Nystrom; B.A.(H.)(Wisc.), M.A., Ph.D.(Virg.)
- Cynthia Price Verreault; BCom(McG.)
- Martine Turcotte; B.C.L./LL.B.(McG.), M.B.A.(London Business School)
- Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

1.11.5.2.2  **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)
### 1.11.6 Governance: Members of Senate

#### 1.11.6.1 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
- The University Registrar and Executive Director of Enrolment Services
- The Director of Teaching and Learning Services

#### 1.11.6.2 Elected Members

**Elected Members**
65 members elected by the faculties, the University Libraries, the Board of Governors, and administrative and support staff
Student Members (21)

### 1.11.7 Administration

**Administration**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael A. Meighen; B.A.(McG.), L.L.(Laval)</td>
<td>Chancellor</td>
</tr>
<tr>
<td>Suzanne Fortier; B.Sc., Ph.D.(McG.)</td>
<td>Principal and Vice-Chancellor</td>
</tr>
<tr>
<td>Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)</td>
<td>Provost and Vice-Principal (Academic)</td>
</tr>
<tr>
<td>Ollivier Dyens; B.F.A.(C'dia), M.A., Ph.D.(Montr.)</td>
<td>Deputy Provost (Student Life &amp; Learning)</td>
</tr>
<tr>
<td>TBA</td>
<td>University Registrar and Executive Director of Enrolment Services</td>
</tr>
<tr>
<td>Martine Gauthier; M.A.(Flor. St.)</td>
<td>Executive Director of Services for Students</td>
</tr>
<tr>
<td>Angela Campbell; B.A. B.C.L.(McG.), L.L.M.(Harv.)</td>
<td>Associate Provost (Equity &amp; Academic Policies)</td>
</tr>
<tr>
<td>Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)</td>
<td>Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural &amp; Environmental Sciences)</td>
</tr>
<tr>
<td>Ghilaïne Roquet; B.A.(UQAM), M.Sc.A.(Montr.)</td>
<td>Chief Information Officer</td>
</tr>
<tr>
<td>Edyta Rogowska; B.A.(Tor.), M.A.(McG.)</td>
<td>Secretary-General</td>
</tr>
<tr>
<td>Yves Beauchamp; B.Eng., M.Eng.(UQTR), Ph.D.(WVU)</td>
<td>Vice-Principal (Administration &amp; Finance)</td>
</tr>
<tr>
<td>Diana Dutton; B.F.A.(C'dia), Gr. Dip., M.B.A.(McG.)</td>
<td>Interim Associate Vice-Principal (Human Resources)</td>
</tr>
<tr>
<td>Robert Couvrette; B.Sc.(École Poly., Montr. &amp; HEC), M.P.M.(UQAM)</td>
<td>Associate Vice-Principal (Facilities Management and Ancillary Services)</td>
</tr>
<tr>
<td>Louis Arsenault; B.A.(UQAM), M.A.(Paris VII)</td>
<td>Vice-Principal (Communications &amp; External Relations)</td>
</tr>
<tr>
<td>David Edelman; M.D.,C.M.(McG.), FRCP, FACP</td>
<td>Vice-Principal (Health Affairs) and Dean (Faculty of Medicine)</td>
</tr>
<tr>
<td>Sam Benaroya; B.Sc., M.D.,C.M.(McG.)</td>
<td>Associate Vice-Principal (Health Affairs) and Vice-Dean (Health Affairs)</td>
</tr>
<tr>
<td>Martha Crago; B.A.(McG.)</td>
<td>Vice-Principal (Research &amp; Innovation)</td>
</tr>
<tr>
<td>Administration</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>TBA</td>
<td>Associate Vice-Principal (Research &amp; Innovation) (Innovation &amp; Partnerships)</td>
</tr>
<tr>
<td>Anne McKinney; B.Sc., Ph.D.(Ulster)</td>
<td>Associate Vice-Principal (Research &amp; Innovation) (Health Sciences)</td>
</tr>
<tr>
<td>Nancy Ross; Ph.D.(McM.)</td>
<td>Associate Vice-Principal (Research &amp; Innovation) (Social Sciences)</td>
</tr>
<tr>
<td>Marc Weinstein; B.A., B.C.L., LL.B.(McG.)</td>
<td>Vice-Principal (University Advancement)</td>
</tr>
</tbody>
</table>

### 1.11.7.1 Deans, Directors of Schools and Libraries

#### 1.11.7.1.1 Deans

<table>
<thead>
<tr>
<th>Deans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)</td>
</tr>
<tr>
<td>Antonia Maioni; B.A.(Laval), M.A.(Car.), Ph.D.(N'western)</td>
</tr>
<tr>
<td>Carola Weil; B.A.(Bryn Mawr), M.A., M.P.M., Ph.D.(Md.)</td>
</tr>
<tr>
<td>Elham Emani; D.D.S.(Tehran), M.Sc., Ph.D.(Montr.)</td>
</tr>
<tr>
<td>Dilson Rassier; B.Sc.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)</td>
</tr>
<tr>
<td>James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.</td>
</tr>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Robert Leckey; B.A.(Hons.) (Qu.), B.C.L./LL.B.(McG.), S.J.D.(Tor.)</td>
</tr>
<tr>
<td>Colleen Cook; B.A., M.L.S., M.A., Ph.D.(Texas)</td>
</tr>
<tr>
<td>Isabelle Bajeux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI &amp; Paris IX), Doctorate(Paris IX)</td>
</tr>
<tr>
<td>David Eidelman; M.D.,C.M.(McG.), FRCPC, FACP</td>
</tr>
<tr>
<td>Brenda Ravenscroft; B.Mus.(Cape Town), M.Mus.(King's, Lond.), Ph.D.(Br. Col.)</td>
</tr>
<tr>
<td>R. Bruce Lennox; B.Sc., M.Sc., Ph.D.(Tor.)</td>
</tr>
<tr>
<td>Chris Buddle; B.Sc.(Guelph), Ph.D.(Alta.)</td>
</tr>
</tbody>
</table>

#### 1.11.7.1.2 Directors of Schools

<table>
<thead>
<tr>
<th>Directors of Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Bressani; B.Arch.(McG.), M.Sc.(MIT), Ph.D.(Paris 1)</td>
</tr>
<tr>
<td>Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Bettina Kemme; M.C.S.(Friedrich-Alexander Univ.), Ph.D.(ETH Zürich)</td>
</tr>
<tr>
<td>Linda Wykes; B.Sc., M.Sc., Ph.D.(Tor.)</td>
</tr>
<tr>
<td>Sylvie de Blois; B.Sc.(McG.), M.Sc., Ph.D.(Montr.)</td>
</tr>
<tr>
<td>Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)</td>
</tr>
<tr>
<td>Anita Gagnon; B.Sc.(Cath. Univ. of Amer.), M.P.H.(Johns Hop.), Ph.D.(McG.)</td>
</tr>
<tr>
<td>Annette Majnemer; B.Sc., M.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Daniel Cere; B.A, M.A.(McG.), Ph.D.(C'dia) (Interim)</td>
</tr>
<tr>
<td>Nico Trocme; B.A., M.A., Ph.D.(Tor.)</td>
</tr>
<tr>
<td>Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.) (Interim)</td>
</tr>
<tr>
<td>Christopher Ragan; B.A.(Vic., BC), M.A.(Qu.), Ph.D.(MIT)</td>
</tr>
</tbody>
</table>
2 Faculty of Agricultural and Environmental Sciences

2.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

2.2 Graduate and Postdoctoral Studies

2.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

2.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

2.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

2.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.
2.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

2.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

2.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

2.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

2.8 Postdoctoral Research

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

2.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

2.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/fiscal support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:
• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:
• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
• to provide feedback on research submitted by the Postdocs;
• to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
• to provide mentorship for career development;
• to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:
• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

2.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

2.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

2.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who
will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

**Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

**Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec's definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

**Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

### 2.9 Graduate Studies Guidelines and Policies

Refer to [University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies](#) for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

### 2.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to [University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees](#) for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
2.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

2.11.1 Agricultural Economics

2.11.1.1 Location

Department of Natural Resource Sciences
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/nrs/academic/graduate/agricultural-economics

2.11.1.2 About Agricultural Economics

The goal of graduate training in Agricultural Economics is to provide students with the applied concepts and tools to identify, define, and analyze economic problems affecting the performance of the agri-food sector and the environment. Attention is given to:

- the development of analytical skills in the broad areas of agricultural, environmental, and ecological economics;
- development;
- resource allocation in production and marketing in agriculture.

The program prepares graduates for rewarding careers in research, analysis, and decision-making in academia; private and NGO sectors; and government. For more information on the M.Sc. in Agricultural Economics, please refer to section 2.11.7: Natural Resource Sciences. Further details can also be found at www.mcgill.ca/nrs/academic/graduate/agricultural-economics.

2.11.1.3 Agricultural Economics Admission Requirements and Application Procedures

2.11.1.3.1 Admission Requirements

To be considered eligible for direct admission to the M.Sc. program, the applicant must have an undergraduate degree with a Cumulative Grade Point Average (CGPA) of at least 3.0 out of a possible 4.0 (second class–upper division or equivalent) or a CGPA of 3.2/4.0 for the last two full-time academic years.

The ideal preparation is an undergraduate degree in Agricultural Economics or Economics, including undergraduate courses in intermediate economic theory (micro and macro), calculus, algebra, statistics, and econometrics. Candidates considered to have insufficient preparation in economics will be asked to take up to two additional undergraduate courses as part of their M.Sc. program.

When an applicant does not have sufficient background in economics for admission to the M.Sc., they may be admitted to a Qualifying program of one year of undergraduate courses. The CGPA requirement is the same as for the M.Sc.

Details on the M.Sc. are available from section 2.11.7: Natural Resource Sciences > section 2.11.7.5: Master of Science (M.Sc.) Agricultural Economics (Thesis) (46 credits). Further details can also be found at www.mcgill.ca/nrs/academic/graduate/agricultural-economics.

2.11.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

211.13.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
Personal Statement

The GRE – not required, but highly recommended

2.11.1.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Agricultural Economics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
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<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
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<tr>
<td>Summer Term:</td>
<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.1.4 Agricultural Economics Faculty

Program Director
P.J. Thomassin

Associate Professors
N. Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Kent), M.Sc., Ph.D.(Autonoma de Barcelona)
P.J. Thomassin; B.Sc.(Agr.)(McG.), M.S., Ph.D.(Hawaii Pac.)

Assistant Professor
A.P. Harou; B.S.(Sus.), M.S.(Calif., Davis), Ph.D.(Cornell)

Adjunct Professor
S. Kulshreshtha; B.Sc.(Ag.), M.Sc.(Ag.)(Dr. B. R. Ambedkar Univ., Agra), Ph.D.(Manit.)

Associate Member
C. Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.)

2.11.2 Animal Science

2.11.2.1 Location
Department of Animal Science
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/animal

2.11.2.2 About Animal Science
The Department of Animal Science provides exciting challenges to graduate students in the areas of:

- Animal Breeding and Genetics
Animal Models for Human Medical Applications
Dairy Cattle Welfare
Epigenetic Modelling
Food Safety
Genome Editing (CRISPR tools)
Large-data Analyses
Metabolomics
Reproductive Physiology
Ruminant and Non-ruminant Nutrition and Metabolism

As they relate, not only to livestock production, but also leading into the fields of human nutrition and medicine via animal models for human disease, infertility, and obesity. Official options in Biotechnology are also available.

Departmental researchers have excellent wet-lab facilities at their disposal; large-animal studies can be carried out at the Large Animal Research Unit on the Macdonald campus farm, where other livestock species are available for research trials as well. Research can make use of the Small Animal Research Unit for studies involving rodent animal models, guinea pigs, neonatal piglets, and rabbits. Expertise is also available in applied information systems, management-software development, and large-scale data analyses. Close collaboration with the Quebec Centre for Expertise in Dairy Production (Valacta) allows for large-scale data-mining projects, software development, and the production of advising tools for the industry. The Department also has significant expertise in food safety, environmental studies related to animal production, and global food security. Our staff's many connections via research networks allow for rich learning environments for our graduate students.

**Section 2.11.2.5: Master of Science (M.Sc.) Animal Science (Thesis) (45 credits)**

Two one-semester courses and three seminar courses at the postgraduate level complement an area of research (resulting in a thesis) under the supervision of one of our staff—many of whom are leaders in their respective fields. Entrance to this program is highly competitive, requiring an excellent B.Sc. and letters of reference. Graduates of this program are well prepared for careers in the animal industry, the pharmaceutical sector, and many varied fields in biotechnology.

**Section 2.11.2.6: Master of Science, Applied (M.Sc.A.) Animal Science (Non-Thesis) (45 credits)**

This non-thesis degree is oriented to animal scientists already working in industry or government, to undergraduate students inspired by concepts in sustainable and integrated animal agriculture, to project leaders interested in animal resource management, and to veterinarians. The program provides graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

**Section 2.11.2.7: Doctor of Philosophy (Ph.D.) Animal Science**

Since the Ph.D. is primarily a research degree, the amount of coursework required will normally be considerably less than is the case for the M.Sc. It depends on the background of the individual student and must be approved by the student’s Advisory Committee. At a minimum, it includes two seminar courses at the graduate level and the Ph.D. Comprehensive Examination as an admission to candidacy for the Ph.D. As with the M.Sc. (Thesis), admission is based on an excellent track record. Suitable candidates are encouraged to contact potential supervisors within their chosen area of interest. Applicants should, however, be aware that no professor is in a position to accept students without formal approval of the application by the Graduate Admissions Committee.

**Section 2.11.2.8: Doctor of Philosophy (Ph.D.) Animal Science: Bioinformatics**

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics Option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.
Candidates are normally required to have an M.Sc. degree in an area related to the chosen field of specialization for the Ph.D. program.

**Qualifying Students**

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. **Successful completion of a Qualifying program does not guarantee admission to a degree program.**

**Financial Aid**

Financial aid is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student’s supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds.

**2.11.2.3.2 Application Procedures**

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

**2112321 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- Acceptance to all programs depends on a staff member agreeing to serve as the student’s supervisor and the student obtaining financial support.
- The GRE – not required, but highly recommended.

**2.11.2.3.3 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Animal Science and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

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<td>Feb. 15*</td>
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<td>Summer Term:</td>
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* Admission to the Winter term is open for thesis programs only.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

**2.11.2.4 Animal Science Faculty**

**Chair**

TBA

**Emeritus Professors**

Roger B. Buckland; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Md.)

Eduardo R. Chavez; Ing.Agr.(Chile), M.Sc., Ph.D.(Calif., Davis)

Eugene Donefer; B.Sc., M.Sc.(Cornell), 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)

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.(Cornell) (*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.)
Raj Duggavathi; B.V.Sc., M.V.Sc.(Bangalore), Ph.D.(Sask.)
Sarah Kimmins; B.Sc.(Dal.), M.Sc.(Nova Scotia Ag.), Ph.D.(Dal.) (*CRC Chair, Tier 2*)
Humberto G. Monardes; Ing.Agr.(Concepcion, Chile), M.Sc., Ph.D.(McG.)
Arif F. Mustafa; B.Sc., M.Sc.(Khartoum), Ph.D.(Sask.)
Kevin M. Wade; B.Sc.(Agr.), M.Sc.(Agr.(Dublin), Ph.D.(Cornell)
David Zadworny; B.Sc., Ph.D.(Guelph)

Assistant Professors

Sergio Burgos; B.Sc.(Flor.), M.Sc.(Calif., Davis), Ph.D.(Guelph)
Jennifer Ronholm; B.Sc.(Wat.), Ph.D.(Ott.) (*joint appt. with Food Science and Agricultural Chemistry*)
Elsa Vasseur; B.Sc., M.Sc.(ISA, Lille), M.Sc.(AgroParisTech), Ph.D.(Laval)
Jianguo (Jeff) Xia; B.M.(Peking Health Science), M.Sc., Ph.D.(Alta.) (*joint appt. with Parasitology*)

Adjunct Professors

Baurhoo Bushansingh, Eveline Ibeagha-Awemu, Pierre Lacasse, Daniel Lefebvre, Bruce Murphy, Débora Santschi

Affiliate Member

René Lacroix

2.11.2.5 Master of Science (M.Sc.) Animal Science (Thesis) (45 credits)

Thesis Courses (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 680</td>
<td>9</td>
<td>M.Sc. Thesis 1</td>
</tr>
<tr>
<td>ANSC 681</td>
<td>9</td>
<td>M.Sc. Thesis 2</td>
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<td>ANSC 682</td>
<td>9</td>
<td>M.Sc. Thesis 3</td>
</tr>
<tr>
<td>ANSC 683</td>
<td>9</td>
<td>M.Sc. Thesis 4</td>
</tr>
</tbody>
</table>

Required Courses (9 credits)

6 credits of coursework at the 500 level or higher approved by the student's advisory committee, and three 1-credit seminars.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 695</td>
<td>1</td>
<td>MSc General Topic Seminar</td>
</tr>
<tr>
<td>ANSC 696</td>
<td>1</td>
<td>MSc Research Proposal Seminar</td>
</tr>
<tr>
<td>ANSC 697</td>
<td>1</td>
<td>MSc Research Results Seminar</td>
</tr>
</tbody>
</table>

Depending on the needs and competencies of the student, additional coursework may be assigned by the supervisory committee.

2.11.2.6 Master of Science, Applied (M.Sc.A.) Animal Science (Non-Thesis) (45 credits)

The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

Research Project (15 credits)
ANSC 643 (3) Project 1
ANSC 644 (3) Project 2
ANSC 645 (3) Project 3
ANSC 646 (3) Project 4
ANSC 647 (3) Project 5

Complementary Courses (30 credits)
15-30 credits from the following:
AEMA 610 (3) Statistical Methods 2
ANSC 504 (3) Population Genetics
ANSC 530 (3) Experimental Techniques in Nutrition
ANSC 551 (3) Carbohydrate and Lipid Metabolism
ANSC 552 (3) Protein Metabolism and Nutrition
ANSC 560 (3) Biology of Lactation
ANSC 565 (3) Applied Information Systems
ANSC 600 (3) Advanced Eukaryotic Cells and Viruses
ANSC 604 (3) Advanced Animal Biotechnology
ANSC 605 (3) Estimation: Genetic Parameters
ANSC 606 (3) Selection Index and Animal Improvement
ANSC 622 (3) Experimental Techniques in Animal Science
ANSC 635 (3) Vitamins and Minerals in Nutrition
ANSC 636 (3) Analysis - Animal Breeding Research Data
ANSC 691 (3) Special Topic: Animal Sciences
ANSC 692 (3) Topic in Animal Sciences 1

0-15 credits selected from 500- and 600-level courses from across the Faculty (with the possibility of up to 9 credits from outside the Faculty if deemed appropriate by the supervisor).

2.11.2.7 Doctor of Philosophy (Ph.D.) Animal Science

Since the Ph.D. is primarily a research degree, the amount of coursework required will depend on the background of the individual student, and must be approved by the student's advisory committee.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
ANSC 701 (0) Doctoral Comprehensive Examination

Two seminar courses at the 500, 600, or 700 level.

2.11.2.8 Doctor of Philosophy (Ph.D.) Animal Science: Bioinformatics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (5 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ANSC 701</td>
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<td>Doctoral Comprehensive Exam.</td>
</tr>
<tr>
<td>ANSC 797</td>
<td>(1)</td>
<td>Animal Science Seminar 3</td>
</tr>
<tr>
<td>ANSC 798</td>
<td>(1)</td>
<td>Animal Science Seminar 4</td>
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<tr>
<td>COMP 616D1</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
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</table>

**Complementary Courses (6 credits)**

Two courses chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

### 2.11.3 Bioresource Engineering

#### 2.11.3.1 Location

Department of Bioresource Engineering  
Macdonald Campus  
21,111 Lakeshore Road  
Sainte-Anne-de-Bellevue QC H9X 3V9  
Canada  
Telephone: 514-398-7838  
Email: gradstudies.mcdonald@mcgill.ca  
Website: www.mcgill.ca/bioeng

#### 2.11.3.2 About Bioresource Engineering

The Department offers M.Sc. and Ph.D. research programs in various areas of bioresource engineering including:

- plant and animal environments;
- ecological engineering (ecosystem modelling, design, management, and remediation);
- water resources management (hydrology, irrigation, drainage, water quality);
- agricultural machinery, mechatronics, and robotics;
- food engineering and bio-processing;
- post-harvest technology;
- waste management and protection of the environment;
- bio-energy;
- artificial intelligence.

The Department has well equipped laboratories for conducting research in all these areas.

The interdisciplinary nature of bioresource engineering often requires candidates for higher degrees to work in association with, or attend courses given by, a number of other departments at both the McGill University Macdonald campus and the Downtown campus.
### Master of Science (M.Sc.) Bioresource Engineering (Thesis) (46 credits)

This option for the M.Sc. degree is oriented toward individuals who intend to develop a career in bioresource engineering research. The research areas include: plant and animal environments; ecological engineering (ecosystem modelling, design, management and remediation); water resources management (hydrology, irrigation, drainage, water quality); agricultural machinery, mechatronics and robotics; food engineering and bio-processing; post-harvest technology; waste management and protection of the environment; bio-energy; and artificial intelligence.

### Master of Science (M.Sc.) Bioresource Engineering (Thesis): Environment (46 credits)

The Environmental option is coordinated through the McGill School of Environment (MSE). This option is intended for students who want to take an interdisciplinary approach in their graduate research on environmental issues. Students will learn how to transfer knowledge into action and develop an appreciation for the roles of science, politics, economics, and ethics with regard to the environment.

### Master of Science (M.Sc.) Bioresource Engineering (Non-Thesis): Integrated Water Resources Management (45 credits)

Integrated Water Resource Management is a one-year program providing an essential approach for sustainable management of our natural watersheds. The 13-credit internship is a central feature of this master’s program. The degree gives students the unique opportunity to study the biophysical, environmental, legal, institutional, and socio-economic aspects of water use and management, in an integrated context. The degree is directed at practising professionals who wish to upgrade and/or focus their skill set to address water management issues. As a graduate from this program, you will be well suited to opportunities in diverse fields of employment, such as water resources consulting, international development project management, research with governments or universities, public policy and governance development, and climate change impact assessment.

### Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis) (45 credits)

The non-thesis option is aimed at individuals already employed in industry or seeking to improve their skills in specific areas (soil and water, structures and environment, waste management, environment protection, post-harvest technology, food process engineering, environmental engineering) in order to attain a higher level of engineering qualification. Candidates must be qualified to be members of a Canadian professional engineering association such as the Ordre des ingénieurs du Québec (OIQ) and must maintain contact with their academic adviser in the Department of Bioresource Engineering before registration to clarify objectives, investigate project possibilities, and plan a program of study.

### Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environment (45 credits)

The non-thesis Environment option is aimed at individuals already employed in industry or seeking to improve their skills in specific areas with the coordination of the McGill School of Environment.

### Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environmental Engineering (45 credits)

The Environmental Engineering program emphasizes interdisciplinary fundamental knowledge, practical perspective, and awareness of environmental issues through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University. The primary objective of the program is to train environmental professionals at the advanced level. The program is thus designed for individuals with a university undergraduate degree in engineering. Through this program, students will master specialized skills in their home disciplines and acquire a broader perspective and awareness of environmental issues.

### Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Integrated Food and Bioprocessing (45 credits)

This graduate program will provide students with the tools to understand how food and agricultural production interact to better manage agricultural, food, and biomass systems for the adequate supply of wholesome food, feed, fiber, biofuel, and any other bio-based material. This course-based program will present students with the skills needed to assess existing production, delivery, and quality management systems; introduce improvements; and communicate effectively with policy makers and with colleagues in multi-disciplinary teams. The goals of this program are to provide up-to-date world class knowledge on techniques for adequate process design and management of biomass production strategies for the delivery of quality food, natural fiber, biochemicals, biomaterials, and biofuels, in a sustainable and environment-friendly way that benefits all. Training activities will include laboratory research and/or industrial/government internships.

### Doctor of Philosophy (Ph.D.) Bioresource Engineering

This is a research-based degree and is offered in the following areas: plant and animal environments; ecological engineering (ecosystem modelling, design, management and remediation); water resources management (hydrology, irrigation, drainage, water quality); agricultural machinery, mechatronics and robotics; food engineering and bio-processing; post-harvest technology; waste management and protection of the environment; bio-energy; and artificial intelligence.
section 2.11.3.13: Doctor of Philosophy (Ph.D.) Bioresource Engineering: Environment

The Ph.D. Bioresource Engineering: Environment – MSE Option is coordinated through the McGill School of Environment (MSE). This option is intended for students who want to take an interdisciplinary approach in their graduate research on environmental issues. Students will learn how to transfer knowledge into action and develop an appreciation for the roles of science, politics, economics, and ethics with regard to the environment.

2.11.3.3 Bioresource Engineering Admission Requirements and Application Procedures

2.11.3.3.1 Admission Requirements

Candidates for M.Sc. and Ph.D. degrees should indicate in some detail their fields of special interest when applying for admission. An equivalent cumulative grade point average (CGPA) of 3.0/4.0 (second class–upper division) or a grade point average (GPA) of 3.2/4.0 during the last two years of full-time university study is required at the bachelor's level. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program. Experience after the undergraduate degree is an additional asset.

Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. Successful completion of a Qualifying program does not guarantee admission to a degree program.

Financial Aid

Financial aid is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student’s supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds.

2.11.3.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

2113321 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Acceptance to all programs depends on a staff member agreeing to serve as the student’s supervisor and the student obtaining financial support.
- The GRE – not required, but highly recommended.

2.11.3.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Bioresource Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term*:</td>
<td>Feb. 15*</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Admission to the Winter term is open for thesis programs only.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.3.4 Bioresource Engineering Faculty

Chair

Valérie Orsat
**Graduate Program Director**
G.S. Vijaya Raghavan

**Associate Graduate Program Director**
Valérie Orsat

**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 A. Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.), D.Sc.(Guelph) (*James McGill Professor*
Shiv O. Prasher; B.Tech., M.Tech.(Punj.), Ph.D.(Br. Col.), LL.D.(Dal.) (*James McGill Professor*)
G.S. Vijaya Raghavan; B.Eng.(B'lore), M.Sc.(Guelph), Ph.D.(Colo. St.), D.Sc.(TNAU), D.Sc.(UAS Dharwad) (*James McGill Professor*)

**Associate Professors**
Viacheslav I. Adamchuk; B.Sc.(NULES, Kyiv), M.Sc., Ph.D.(Purd.)
Jan Adamowski; B.Eng.(RMC), M.Phil.(Camb.), M.B.A.(WUT, LBS, HEC Montr., NHH), Ph.D.(Warsaw) (*Liliane and David M. Stewart Scholar in Water Resources*)
Grant Clark; B.Sc.(Alta.), M.Sc., Ph.D.(McG.)
Mark Lefsrud; B.Sc.(Sask.), M.Sc.(Rutg.), Ph.D.(Tenn.) (*William Dawson Scholar*)
Valérie Orsat; B.Sc., M.Sc., Ph.D.(McG.)

**Assistant Professors**
Shafaroud Abdolhamid Akbarzadeh; B.Sc.(Isfahan Univ. of Tech.), M.Sc.(Amirkabir Univ. of Tech., Tehran), Ph.D.(New Br.)
Marie-Josée Dumont; B.Eng, M.Sc.(Laval), Ph.D.(Alta.)
Zhiming Qi; B.Sc., M.Sc.(China Agr.), Ph.D.(Iowa)

**Adjunct Professors**
Murray Clamen; B.Eng., Ph.D.(McG.)
Luis Del Rio; B.Sc., M.Sc.(S. Fraser), Ph.D.(Br. Col.)
Satya Dev; B.Sc.(TNAU), M.Sc., Ph.D.(McG.)
Pierre Jutras; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(McG.)
Arun Mujumdar; B.Eng.(Bom.), M.Eng., Ph.D.(McG.)
Boris Tartakovsky; M.Sc., Ph.D.(Moscow St.)

**Faculty Lecturers**
Alice Cherestes; B.Sc., M.Sc.(Queens College), Ph.D.(CUNY)
David Titley-Peloquin; B.Sc., Ph.D.(McG.)

**Research/Academic Associates**
Yvan Gariepy; B.Sc., M.Sc.(McG.)
Darwin Lyew; B.Sc., M.Sc., Ph.D.(McG.)

**Technical**
Scott Manktelow
2.11.3.5 Master of Science (M.Sc.) Bioresource Engineering (Thesis) (46 credits)

This option for the M.Sc. degree is oriented toward individuals who intend to develop a career in bioresource engineering research.

**Thesis Courses (32 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 691</td>
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<tr>
<td>BREE 692</td>
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<td>M.Sc. Thesis 2</td>
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<td>4</td>
<td>M.Sc. Thesis 6</td>
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<td>M.Sc. Thesis 7</td>
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<td>4</td>
<td>M.Sc. Thesis 8</td>
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**Required Courses (5 credits)**

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</tr>
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<tbody>
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<td>Departmental Seminar M.Sc. 2</td>
</tr>
<tr>
<td>BREE 699</td>
<td>3</td>
<td>Scientific Publication</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

500-, 600-, or 700-level courses in bioresource engineering and other fields to be determined in consultation with the Research Director.

2.11.3.6 Master of Science (M.Sc.) Bioresource Engineering (Thesis): Environment (46 credits)

**Thesis Courses (32 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 691</td>
<td>4</td>
<td>M.Sc. Thesis 1</td>
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<tr>
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<td>M.Sc. Thesis 2</td>
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<td>M.Sc. Thesis 8</td>
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**Required Courses (11 credits)**

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</tr>
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<tbody>
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<td>Foundations of Environmental Policy</td>
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<td>ENVR 650</td>
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</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

**Complementary Courses (3 credits)**
Chosen from the following:

- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.3.7 Master of Science (M.Sc.) Bioresource Engineering (Non-Thesis): Integrated Water Resources Management (45 credits)

Research Project (6 credits)

- BREE 631 (6) Integrated Water Resources Management Project

Required Courses (27 credits)

- BREE 503 (3) Water: Society, Law and Policy
- BREE 510 (3) Watershed Systems Management
- BREE 630 (13) Integrated Water Resources Management Internship
- BREE 651 (1) Departmental Seminar M.Sc. 1
- BREE 652 (1) Departmental Seminar M.Sc. 2
- BREE 655 (3) Integrated Water Resources Management Research Visits
- PARA 515 (3) Water, Health and Sanitation

Elective Courses (12 credits)

12 credits, at the 500 level or higher, of any relevant course(s) chosen in consultation with the Program Director.

2.11.3.8 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis) (45 credits)

The non-thesis option is aimed toward individuals already employed in industry or seeking to improve their skills in specific areas (soil and water/structures and environment/waste management/environment protection/post-harvest technology/food process engineering/environmental engineering) in order to enter the engineering profession at a higher level.

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc. Applied program.

Each candidate for this option is expected to establish and maintain contact with his/her academic adviser in the Department of Bioresource Engineering some time before registration in order to clarify objectives, investigate project possibilities and plan a program of study.

Research Project (12 credits)

- BREE 671 (6) Project 1
- BREE 672 (6) Project 2

Required Courses (2 credits)

- BREE 651 (1) Departmental Seminar M.Sc. 1
- BREE 652 (1) Departmental Seminar M.Sc. 2

Complementary Courses (31 credits)

31 credits of 500-, 600-, or 700-level courses in bioresource engineering and other fields* to be determined in consultation with the Project Director.
Note: 12 of the 31 credits are expected to be from collaborative departments, e.g., food process engineering: 12 credits divided between Food Science and Chemical Engineering.

2.11.3.9 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environment (45 credits)

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc. Applied program.

Research Project (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 671</td>
<td>6</td>
<td>Project 1</td>
</tr>
<tr>
<td>BREE 672</td>
<td>6</td>
<td>Project 2</td>
</tr>
</tbody>
</table>

Required Courses (8 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 651</td>
<td>1</td>
<td>Departmental Seminar M.Sc. 1</td>
</tr>
<tr>
<td>BREE 652</td>
<td>1</td>
<td>Departmental Seminar M.Sc. 2</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

Complementary Courses (25 credits)

3 credits from the following courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

22 additional credits of 500-, 600-, or 700-level courses chosen in consultation with the academic adviser.

2.11.3.10 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environmental Engineering (45 credits)

This inter-departmental graduate program leads to a master's degree in Environmental Engineering. The objective of the program is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. This non-thesis degree falls within the M.Eng. and M.Sc. programs which are offered in the Departments of Bioresource, Chemical, Civil, and Mining, Metals, and Materials Engineering.

Research Project (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 671*</td>
<td>6</td>
<td>Project 1</td>
</tr>
<tr>
<td>BREE 672</td>
<td>6</td>
<td>Project 2</td>
</tr>
</tbody>
</table>

* BREE 671 may also be taken as part of this requirement.

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 533</td>
<td>3</td>
<td>Water Quality Management</td>
</tr>
<tr>
<td>CHEE 591</td>
<td>3</td>
<td>Environmental Bioremediation</td>
</tr>
</tbody>
</table>
CIVE 615 (3) Environmental Engineering Seminar

**Complementary Courses (19 credits)**

**Data Analysis Course**
3 credits from the following:
- AEMA 611 (3) Experimental Designs 1
- CIVE 555 (3) Environmental Data Analysis
- PSYC 650 (3) Advanced Statistics 1

**Toxicology Course**
3 credits from the following:
- OCCH 612 (3) Principles of Toxicology
- OCCH 616 (3) Occupational Hygiene

**Water Pollution Engineering Course**
4 credits from the following:
- CIVE 651 (4) Theory: Water / Wastewater Treatment
- CIVE 652 (4) Biological Treatment: Wastewaters
- CIVE 660 (4) Chemical and Physical Treatment of Waters

**Air Pollution Engineering Course**
3 credits from the following:
- CHEE 592 (3) Industrial Air Pollution Control
- MECH 534 (3) Air Pollution Engineering

or an approved 500-, 600-, or 700-level alternative course.

**Environmental Impact Course**
3 credits from the following:
- GEOG 501 (3) Modelling Environmental Systems
- GEOG 551 (3) Environmental Decisions

or an approved 500-, 600-, or 700-level alternative course.

**Environmental Policy Course**
3 credits from the following:
- URBP 506 (3) Environmental Policy and Planning

or an approved 500-, 600-, or 700-level alternative course.

Further complementary courses (balance of coursework to meet the 45-credit program requirement):
Remaining Engineering or Non-Engineering courses from an approved list of courses, at the 500, 600, or 700 level, from the Faculty of Engineering, Faculty of Agricultural and Environmental Sciences, Faculty of Law, Faculty of Religious Studies, Desautels Faculty of Management, and Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, Sociology, and the McGill School of Environment.
2.11.3.11 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Integrated Food and Bioprocessing (45 credits)

**Required Courses (6 credits)**

- BREE 600 (1) Project/Internship Proposal
- BREE 651 (1) Departmental Seminar M.Sc. 1
- BREE 652 (1) Departmental Seminar M.Sc. 2
- BREE 699 (3) Scientific Publication

**Complementary Courses (39 credits)**

Minimum of 3 credits of graduate-level Statistics in any department

Minimum of 9 credits from courses selected from the following:

- BREE 518 (3) Ecological 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
- BREE 535 (3) Food Safety Engineering
- BREE 603 (3) Advanced Properties: Food and Plant Materials

Minimum of 12 credits selected from the following:

- BREE 601 (6) Integrated Food and Bioprocessing Internship 1
- BREE 602 (6) Integrated Food and Bioprocessing Internship 2
- BREE 671 (6) Project 1
- BREE 672 (6) Project 2

Minimum of 3 credits selected from the following:

- AGEC 630 (3) Food and Agricultural Policy
- AGEC 633 (3) Environmental and Natural Resource Economics
- AGEC 642 (3) Economics of Agricultural Development
- AGRI 510 (3) Professional Practice

Minimum of 3 credits selected from the following:

- BTEC 502 (3) Biotechnology Ethics and Society
- FDSC 519 (3) Advanced Food Processing
- FDSC 535 (3) Food Biotechnology
- FDSC 538 (3) Food Science in Perspective
- GEOG 515 (3) Contemporary Dilemmas of Development
- NUTR 501 (3) Nutrition in Developing Countries

9 credits of any relevant graduate-level course chosen in consultation with the Program Director.
2.11.3.12 Doctor of Philosophy (Ph.D.) Bioresource Engineering

Candidates for the Ph.D. degree will normally register for the M.Sc. degree first. In cases where the research work is proceeding very satisfactorily, or where the equivalent of the M.Sc. degree has been completed previously, candidates may be permitted to proceed directly to the Ph.D. degree.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>BREE 751</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 1</td>
</tr>
<tr>
<td>BREE 752</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 2</td>
</tr>
<tr>
<td>BREE 753</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 3</td>
</tr>
<tr>
<td>BREE 754</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 4</td>
</tr>
</tbody>
</table>

**Complementary Courses**

Courses of study selected for a Ph.D. program will depend on the existing academic qualifications of the candidate, and on those needed for effective pursuit of research in the chosen field. Candidates are encouraged to take an additional course of study of their own choice in some field of the humanities, sciences, or engineering not directly related to their research. The program will be established by consultation of the candidate with a committee that will include the Research Director and at least one other professor.

2.11.3.13 Doctor of Philosophy (Ph.D.) Bioresource Engineering: Environment

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

Note: BREE 701, the comprehensive component, must be taken either late in the first, or early in the second, registration year to qualify to proceed to the completion of the Ph.D. degree.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Name</th>
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<tbody>
<tr>
<td>BREE 701</td>
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</tr>
<tr>
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<td>(0)</td>
<td>Departmental Seminar Ph.D. 1</td>
</tr>
<tr>
<td>BREE 752</td>
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<td>Departmental Seminar Ph.D. 2</td>
</tr>
<tr>
<td>BREE 753</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 3</td>
</tr>
<tr>
<td>BREE 754</td>
<td>(0)</td>
<td>Departmental Seminar Ph.D. 4</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>(1)</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>(1)</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>(1)</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

**Complementary Courses**

One course chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>(3)</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>(3)</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>(3)</td>
<td>Environment and Health of Species</td>
</tr>
</tbody>
</table>
or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.4 Biotechnology

2.11.4.1 Location

Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/biotechgradprog

2.11.4.2 About Biotechnology

A non-thesis M.Sc.(Applied) degree and a Graduate Certificate in Biotechnology are offered.

The non-thesis program in Biotechnology offers a course-based curriculum with practical training in laboratory courses and internships offered through the Institute of Parasitology. The Institute is housed on Macdonald Campus of McGill University in beautiful Sainte-Anne-de-Bellevue about 30 kilometers from the Montreal main campus downtown.

Graduates typically enter the biotechnology sector in research, management, or sales, or accept government positions.

Biotechnology Programs

section 2.11.4.5: Master of Science, Applied (M.Sc.A.) Biotechnology (Non-Thesis) (45 credits)

Candidates must possess a bachelor's degree in the biological/molecular sciences or an equivalent program. This applied master's program is unique in Quebec. It aims to prepare students for entry into the biotechnology and pharmaceutical industry or to pursue further graduate studies in biomedicine, agriculture, or the environment. Students can choose from a wide range of complementary courses given throughout the McGill campuses to "design" their own program toward a future career choice. The program provides in-house training in molecular biology with a strong focus on the molecular/biochemical sciences. Concurrently, it provides teaching in management and gives students the opportunity to look at the business aspect of biotechnology.

A research internship of four to eight months is carried out in an active laboratory, and students learn to present and write research results. Graduates will find jobs ranging from positions as research assistants and/or technicians in biomedical or pharmaceutical laboratories to managerial or supervisory positions. They may also pursue a career in the business of biotechnology including patent and intellectual property management.

section 2.11.4.6: Graduate Certificate (Gr. Cert.) Biotechnology (16 credits)

Candidates must possess a bachelor's degree in the biological/molecular sciences or an equivalent program. This is a short, intense program for students wishing to deepen their understanding of biotechnology and gain hands-on experience via an intensive laboratory course using the latest molecular biology techniques. Students can choose from a wide range of complementary courses given throughout the McGill campuses to "design" their own program toward a future career choice. Graduates will find employment in research or industrial laboratories as assistants and/or technicians.

2.11.4.3 Biotechnology Admission Requirements and Application Procedures

2.11.4.3.1 Admission Requirements

Candidates for the Graduate Certificate and the M.Sc.(Applied) in Biotechnology must possess a bachelor's degree in biological sciences or equivalent with a minimum cumulative grade point average (CGPA) of 3.0/4.0 or a grade point average (GPA) of 3.2/4.0 in the last two full-time years of university study for the Graduate Certificate, and a minimum CGPA of 3.2/4.0 for the M.Sc.(A.), as well as all prerequisites or their equivalents. Applicants are required to have sufficient background in biochemistry, cellular biology, and molecular biology, preferably at an advanced level for the Master's Applied.

Financial Support

Financial support for Biotechnology programs is very limited. Students secure funding from available sources, or must be self-sufficient. International students are strongly encouraged to secure funding from their home country or international agencies. More information is found at www.mcgill.ca/biotechgradprog/admissions/tuition.
2.11.4.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

2.11.4.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- An English Proficiency test is required for most international applicants.
- The GRE (optional).
- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Biotechnology website at www.mcgill.ca/biotechgradprog/admissions for full details of the admission process.

2.11.4.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Institute of Parasitology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All Applicants</strong></td>
<td><strong>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</strong></td>
</tr>
<tr>
<td><strong>Fall Term:</strong></td>
<td>Sept. 15</td>
</tr>
<tr>
<td><strong>Winter Term:</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Summer Term:</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.4.4 Biotechnology Faculty

Biotechnology programs are offered through the Institute of Parasitology. For a complete faculty listing, please refer to section 2.11.8.4: Parasitology Faculty.

2.11.4.5 Master of Science, Applied (M.Sc.A.) Biotechnology (Non-Thesis) (45 credits)

**Research Project (16 credits)**

- BTEC 622 (2) Biotechnology Research Project 1
- BTEC 623 (6) Biotechnology Research Project 2
- BTEC 624 (6) Biotechnology Research Project 3
- BTEC 625 (2) Biotechnology Research Project 4

**Required Courses (20 credits)**

- BIOT 505 (3) Selected Topics in Biotechnology
- BTEC 501 (3) Bioinformatics
- BTEC 619 (4) Biotechnology Laboratory 2
- BTEC 620 (4) Biotechnology Laboratory 1
- BTEC 621 (3) Biotechnology Management
- HGEN 660 (3) Genetics and Bioethics

**Complementary Courses (9 credits)**
9 credits at the 500 level or higher, selected within the Faculties of Agricultural and Environmental Sciences, Medicine, Science, or Management in consultation with the academic adviser of the program in line with the interests of the student.

### 2.11.4.6 Graduate Certificate (Gr. Cert.) Biotechnology (16 credits)

#### Required Courses (10 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BROT 505</td>
<td>(3)</td>
<td>Selected Topics in Biotechnology</td>
</tr>
<tr>
<td>BTEC 620</td>
<td>(4)</td>
<td>Biotechnology Laboratory 1</td>
</tr>
<tr>
<td>BTEC 621</td>
<td>(3)</td>
<td>Biotechnology Management</td>
</tr>
</tbody>
</table>

#### Complementary Courses (6 credits)

Two courses chosen from the following:

**General Topics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 622</td>
<td>(3)</td>
<td>Experimental Techniques in Animal Science</td>
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<tr>
<td>BINF 511</td>
<td>(3)</td>
<td>Bioinformatics for Genomics</td>
</tr>
<tr>
<td>BIOL 524</td>
<td>(3)</td>
<td>Topics in Molecular Biology</td>
</tr>
<tr>
<td>BIOL 568</td>
<td>(3)</td>
<td>Topics on the Human Genome</td>
</tr>
<tr>
<td>BTEC 501</td>
<td>(3)</td>
<td>Bioinformatics</td>
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<td>BTEC 502</td>
<td>(3)</td>
<td>Biotechnology Ethics and Society</td>
</tr>
<tr>
<td>BTEC 535</td>
<td>(3)</td>
<td>Functional Genomics in Model Organisms</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
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<tr>
<td>BTEC 691</td>
<td>(3)</td>
<td>Biotechnology Practicum</td>
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<tr>
<td>EXMD 511</td>
<td>(3)</td>
<td>Joint Venturing with Industry</td>
</tr>
<tr>
<td>EXMD 602</td>
<td>(3)</td>
<td>Techniques in Molecular Genetics</td>
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</tbody>
</table>

**Health**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 610</td>
<td>(3)</td>
<td>Molecular Methods in Medical Research</td>
</tr>
<tr>
<td>PARA 635</td>
<td>(3)</td>
<td>Cell Biology and Infection</td>
</tr>
<tr>
<td>PHGY 518</td>
<td>(3)</td>
<td>Artificial Cells</td>
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</tbody>
</table>

**Environment and Food**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 530</td>
<td>(3)</td>
<td>Fermentation Engineering</td>
</tr>
<tr>
<td>FDSC 535</td>
<td>(3)</td>
<td>Food Biotechnology</td>
</tr>
</tbody>
</table>

### 2.11.5 Food Science and Agricultural Chemistry

#### 2.11.5.1 Location

Department of Food Science and Agricultural Chemistry  
Macdonald-Stewart Building, Room MS1-033  
Macdonald Campus of McGill University  
21,111 Lakeshore Road  
Sainte-Anne-de-Bellevue QC H9X 3V9  
Canada  
Telephone: 514-398-7838
About Food Science and Agricultural Chemistry

The Department of Food Science and Agricultural Chemistry offers M.Sc. (thesis and non-thesis) and Ph.D. programs. These programs provide training in evolving interdisciplinary areas of:

- food quality;
- food safety/food microbiology;
- food chemistry;
- food biotechnology;
- functional ingredients;
- applied infrared spectroscopy;
- food processing;
- thermal generation of aromas and toxicants;
- marine biochemistry;
- food chemical toxicants.

The Department has key infrastructure with all major equipment necessary for conducting research in all these areas. Our graduate program provides strong mentoring/advisory support while maintaining high flexibility for individual research projects.

section 2.11.5.6: Master of Science (M.Sc.) Food Science and Agricultural Chemistry (Non-Thesis) (45 credits)

The program offers advanced food science courses in a broad range of areas. It is suitable for students with an undergraduate degree in food science or a closely related discipline. Students must complete a total of 45 credits including ten graduate-level courses, the graduate seminar, and the research project. The program may be completed in three to four academic terms (12 to 16 months). Entry is possible from other disciplines; however, students may be required to complete selected undergraduate courses as determined by the Department at the time of admission in order to orient themselves to food science. Subsequent career paths include work within the food industry and government agencies.

section 2.11.5.7: Master of Science (M.Sc.) Food Science & Agricultural Chemistry: Food Safety (Non-Thesis) (45 credits)

The Food Safety concentration is offered to candidates who seek further specialization in the area of food safety but do not wish to pursue independent research. It is intended to train graduate students as specialists in food safety with the expectation that graduates will be well-prepared academically to take on the challenging food safety events and issues that emerge in Canada and globally. The program covers food safety through the entire food supply chain from food production through processing/manufacturing to the food consumer. A strong undergraduate background in food science and particularly in microbiology is required. Students must complete a total of 45 credits including ten graduate-level courses, the graduate seminar, and the research project. The program may be completed in three to four academic terms (12 to 16 months). Students may also be required to complete selected undergraduate courses as determined by the Department at the time of admission.

section 2.11.5.5: Master of Science (M.Sc.) Food Science and Agricultural Chemistry (Thesis) (45 credits)

This program is a research-based degree in various areas related to food science for candidates entering the M.Sc. program without restrictions (i.e., not requiring a Qualifying term/year). Entry into the M.Sc. (Thesis) program also hinges on the availability of supervisory staff and financing. Therefore, it is advisable that the applicant for the M.Sc. (Thesis) degree select the M.Sc. (Non-Thesis) as a second choice in the application form, to enhance the possibility of entry into the Food Science graduate program. Subsequent career paths include work within the food industry, government agencies, and in research.

section 2.11.5.8: Doctor of Philosophy (Ph.D.) Food Science and Agricultural Chemistry

A Ph.D. in food science is suitable for students with an M.Sc. degree in food science or related areas who wish to become independent researchers and/or leaders in the field of food science. Candidates with a B.Sc. degree applying for the Ph.D. need to register first for the M.Sc. degree. In cases where the candidates are performing well during their first year, they may be permitted to fast track to the Ph.D. degree. Entry into the Ph.D. graduate program hinges on the availability of supervisory staff and financing.

Food Science and Agricultural Chemistry Admission Requirements and Application Procedures

2.11.5.3.1 Admission Requirements

Applicants to the M.Sc. programs must be graduates of a university of recognized reputation and hold a B.Sc. in Food Science or a related discipline such as Chemistry, Biochemistry, or Microbiology with a minimum cumulative grade point average (CGPA) of 3.0/4.0 (second class–upper division) and a minimum grade point average (GPA) of 3.2/4.0 during the last two years of full-time university study. Applicants to the Ph.D. program must hold an M.Sc. degree in Food Science or related areas with a minimum CGPA of 3.4 in their M.Sc. and a minimum GPA of 3.2 for the last two years of their B.Sc. degree. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.
Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. Successful completion of a Qualifying program does not guarantee admission to a degree program.

Financial Aid

Financial aid for students in thesis programs is very limited and highly competitive. Students in non-thesis master’s programs must be self-funded. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student’s supervisor. While the Department cannot guarantee financial support, students can apply for teaching assistantships and other scholarships.

2.11.5.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

2115321 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Final acceptance to the M.Sc. Thesis or Ph.D. program depends on a faculty member agreeing to serve as the student's supervisor. A supervisor is not required for acceptance to the M.Sc. Non-Thesis program.
- The GRE – not required, but highly recommended.
- Proof of funding (all graduate programs, international applicants only): Documents must be provided in the application to prove that funding is available for the entire duration of the applied-for degree (including tuition, fees, surcharges, books and supplies, living and personal expenses, and any mandatory medical insurance required for the applicant's studies).
- An interview with the applicant may be requested by the Department of Food Science and Agricultural Chemistry in order to assist in the evaluation of the application.

2.11.5.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Food Science and Agricultural Chemistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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</tr>
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<td>Summer Term:</td>
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</tbody>
</table>

* Admission to the Winter term is open for thesis programs only.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.5.4 Food Science and Agricultural Chemistry Faculty

Chair
Varoujan A. Yaylayan

Graduate Program Director
Ashraf Ismail

Professors
Hosahalli S. Ramaswamy; B.Sc.(B'lore), M.Sc., Ph.D.(Br. Col.)
Professors

Benjamin K. Simpson; B.Sc.(KNUST, Ghana), Ph.D.(Nfld.)
Varoujan A. Yaylayan; B.Sc.(Beirut), M.Sc., Ph.D.(Alta.)

Associate Professors

Saji George; B.Sc., M.Sc.(Mahatma Gandhi, Kerala), Ph.D.(NUS)
Lawrence Goodridge; B.Sc., M.Sc., Ph.D.(Guelph)
Ashraf A. Ismail; B.Sc., Ph.D.(McG.)
Salwa Karboune; B.Sc., M.Sc.(Hassan II, Rabat), D.E.A., Ph.D.(Marseille)

Assistant Professor

Stephane Bayen; B.Sc.(ENSCM), M.Sc.(NUS), M.Eng.(ENSCM), Ph.D.(NUS)
Jennifer Ronholm; B.Sc.(Wat.), Ph.D.(Ott.) (joint appt. with Animal Science)
Yixiang Wang; B.Sc., Ph.D.(Wuhan)

Adjunct Professors

John Austin; M.Sc.(Windsor), Ph.D.(W. Ont.)
Luis Garcia; M.Sc.(Guelph)
Jocelyn Pare; B.Sc.(McG.), Ph.D.(Car.)

Professors Post-Retirement

Inteaz Alli; B.Sc.(Guyana), M.Sc., Ph.D.(McG.)
Selim Kermasha; B.Sc.(Baghdad), D.Sc.(Nancy)
Frederik R. van de Voort; B.Sc., M.Sc., Ph.D.(Br. Col.)

2.11.5.5 Master of Science (M.Sc.) Food Science and Agricultural Chemistry (Thesis) (45 credits)

For candidates entering the M.Sc. program without restrictions, i.e., those not requiring a qualifying term/year, the M.Sc. degree consists of 45 graduate credits. These credits are obtained through a combination of graduate courses and a research thesis.

The residence time for a M.Sc. degree is three academic terms based on unqualified entry into the M.Sc. program. Students are encouraged to complete their studies within this time frame.

Thesis (30 credits)

FDSC 690 (8)  M.Sc. Literature Review
FDSC 691 (7)  M.Sc. Research Protocol
FDSC 692 (15) M.Sc. Thesis

Required Courses (6 credits)

FDSC 695 (3)  M.Sc. Graduate Seminar 1
FDSC 696 (3)  M.Sc. Graduate Seminar 2

Complementary Courses (9 credits)

At least 9 credits, normally from 500- or 600-level departmental courses.

2.11.5.6 Master of Science (M.Sc.) Food Science and Agricultural Chemistry (Non-Thesis) (45 credits)

This 45-credit program is offered to candidates who seek further training in Food Science, but do not wish to pursue independent research. These credits are obtained through a combination of graduate courses.

The residence time for a M.Sc. degree (Non-Thesis) is three academic terms.
PROGRAM REQUIREMENTS

Research Project (12 credits)

FDSC 697 (6) M.Sc. Project Part 1
FDSC 698 (6) M.Sc. Project Part 2

Complementary Courses (18 credits)

3 credits chosen from the following:

FDSC 695 (3) M.Sc. Graduate Seminar 1
FDSC 696 (3) M.Sc. Graduate Seminar 2

15 credits chosen from the following:

AGRI 510 (3) Professional Practice
FDSC 515 (3) Enzymology
FDSC 516 (3) Flavour Chemistry
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
FDSC 538 (3) Food Science in Perspective
FDSC 540 (3) Sensory Evaluation of Foods
FDSC 545 (3) Advances in Food Microbiology
FDSC 634 (3) Food Toxins & Toxicants
FDSC 651 (3) Principles of Food Analysis 2
FDSC 652 (3) Separation Techniques in Food Analysis 2

Elective Courses (15 credits)

At the 500 level or higher, and chosen in consultation with the academic adviser.

2.11.5.7 Master of Science (M.Sc.) Food Science & Agricultural Chemistry: Food Safety (Non-Thesis) (45 credits)

The program is intended to train graduate students as specialists in food safety with the expectation that graduates will be well prepared academically to take on the challenging food safety events and issues that emerge both in Canada and globally. The program will cover food safety through the entire food supply chain from food production through processing/manufacturing to the food consumer; the courses which make up the program reflect the food safety considerations at the different stages of the farm to table food supply chain.

Required Courses (12 credits)

FDSC 545 (3) Advances in Food Microbiology
FDSC 624 (3) Current Food Safety Issues
FDSC 626 (3) Food Safety Risk Assessment
FDSC 634 (3) Food Toxins & Toxicants

Research Project (12 credits)

FDSC 697 (6) M.Sc. Project Part 1
FDSC 698 (6) M.Sc. Project Part 2

**Complementary Courses (15 credits)**

3 credits chosen from the following:
- FDSC 695 (3) M.Sc. Graduate Seminar 1
- FDSC 696 (3) M.Sc. Graduate Seminar 2

12 credits chosen from the following:
- AGRI 510 (3) Professional Practice
- BREE 535 (3) Food Safety Engineering
- FDSC 525 (3) Food Quality Assurance
- FDSC 536 (3) Food Traceability
- FDSC 555 (3) Comparative Food Law
- NUTR 512 (3) Herbs, Foods and Phytochemicals
- OCCH 612 (3) Principles of Toxicology
- PARA 515 (3) Water, Health and Sanitation

**Elective Courses (6 credits)**

At the 500 level or higher, and selected in consultation with the academic adviser.

**2.11.5.8 Doctor of Philosophy (Ph.D.) Food Science and Agricultural Chemistry**

Candidates will be judged principally on their research ability. Coursework will be arranged in consultation with the student's departmental graduate advisory committee.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (9 credits)**

Note: Candidates should be prepared to take the Comprehensive Preliminary Examination before the end of the second year of the program.

- FDSC 700 (0) Comprehensive Preliminary Examination
- FDSC 725 (3) Advanced Topics in Food Science
- FDSC 797 (3) Ph.D. Graduate Seminar 1
- FDSC 798 (3) Ph.D. Graduate Seminar 2

**2.11.6 Human Nutrition**

**2.11.6.1 Location**

School of Human Nutrition
Macdonald-Stewart Building
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
2.11.6.2 About Human Nutrition

In the School of Human Nutrition, cutting-edge nutrition research is conducted by its 12.5 tenure-track professors and six faculty lecturers in all areas recommended by North American Nutrition Societies. These include molecular and cellular nutrition, clinical, community, and international nutrition. Domains emphasized by School researchers include:

- nutritional biochemistry and metabolism;
- fetal, perinatal and childhood origins of health and disease;
- clinical and epidemiological studies optimizing health in at-risk populations including Aboriginal populations, mothers and children, and the elderly;
- development of novel nutritional and/or nutraceutical approaches to maintain health and for treatment during surgery and recovery from disease.

Research is conducted in our on-site research labs, the Centre for Indigenous Peoples' Nutrition and Environment (CINE), the McGill Institute for Global Food Security, the Mary Emily Clinical Nutrition Research Unit (MECNRU), and the MUHC Teaching Hospitals. Students can conduct research or participate in clinical rotations in Ghana and field sites in Asia, Africa, Latin America, and the Caribbean.

section 2.11.6.3: Master of Science (M.Sc.) Human Nutrition (Thesis) (45 credits)

A master’s degree in Human Nutrition offers advanced Nutrition courses in a broad range of research areas. The program is suitable for students with an undergraduate degree in nutritional sciences, exercise physiology, kinesiology, food science, biochemistry, medicine, or another closely related field. Students are required to complete advanced nutrition coursework and activities related to their thesis research. Graduates of our M.Sc. thesis degree have pursued successful careers in research, international health agencies, government agencies, and industry.

section 2.11.6.4: Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Practicum (45 credits)

The M.Sc. Applied program is a course-based master’s program. It allows students to further develop knowledge and expertise in nutrition. Students are required to complete advanced Nutrition courses and activities related to a research project or an advanced practicum (reserved for registered dietitians). Careers include managerial positions for practising dietitians, and careers in nutrition programs, government, and industry.

section 2.11.6.5: Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Dietetics Credentialing (83 credits)

The M.Sc. Applied program in Dietetics Credentialing is a course-based master's program with a dietetics Stage (internship) included. At the end of the program, students are qualified to be licensed with one of the provincial regulatory bodies in Canada, as well as in other countries, and practise in the areas of clinical nutrition, community nutrition, and foodservice management; French competency is an asset. The program is preceded by a Qualifying year, if necessary, to complete certain courses required for licensure. This is followed by three semesters of graduate-level courses and three semesters of Stage, which include a practice-based graduate project.

section 2.11.6.6: Doctor of Philosophy (Ph.D.) Human Nutrition

A Ph.D. degree in Human Nutrition is suitable for students with an M.Sc. degree in Nutritional Sciences or related areas who wish to become independent researchers and/or leaders in the field of nutritional sciences. The School offers a stimulating research environment with opportunities in a wide range of areas of basic science, clinical research with our many hospital clinicians, as well as population health in Canada and abroad. Careers include academic, senior government, and industry positions within Canada and internationally.

section 2.11.6.7: Graduate Diploma (Gr. Dip.) Registered Dietitian Credentialing (30 credits)

In the School of Human Nutrition at McGill, students pursuing a Ph.D. in human nutrition have the opportunity to apply to our Graduate Diploma in R.D. Credentialing, upon completion of the Ph.D. program and upon completion of the undergraduate courses required by l’Ordre professionnel des diététistes du Québec (OPDQ). Additional preparatory courses for Stages (internships) are NUTR 513, NUTR 628, NUTR 515. This Diploma consists of two semesters of Stage (internship) in Clinical Nutrition, Community Nutrition, and Foodservice Management. Upon completion of the Diploma, the recipient is eligible to register and practice as a Dietitian in Quebec, as well as in other Canadian provinces and other countries.

2.11.6.3 Human Nutrition Admission Requirements and Application Procedures

2.11.6.3.1 Admission Requirements

M.Sc. Thesis and M.Sc. Applied (Project, Practicum, and Dietetics Credentialing)

Applicants must be graduates of a university of recognized reputation and hold a B.Sc. degree equivalent to a McGill degree in a subject closely related to the one selected for graduate work. Applicants must have a minimum cumulative grade point average (CGPA) in McGill University’s credit equivalency of
3.2/4.0 (second class–upper division) for the M.Sc. Thesis and 3.5/4.0 for the M.Sc. Applied during their bachelor's degree program. Eligible candidates to the M.Sc. (Applied) program may select one of three options:

1. The project option;
2. The practicum option, which is reserved for those who have completed a dietetics internship and six months of work experience and wish to further develop their skills in a particular area of practice through an advanced internship;
3. The dietetics credentialing option, for those who wish to follow a program combining courses and internship, leading to licensure as a dietitian.

Ph.D.

Applicants must be graduates of a university of recognized reputation and hold a B.Sc. and M.Sc. degree equivalent to a McGill degree in a subject closely related to the one selected for graduate work. Applicants must have a minimum cumulative grade point average (CGPA) in McGill University's credit equivalency of 3.2/4.0 (second class–upper division) during their bachelor's and master's degree programs. Exceptional students may apply to transfer to the Ph.D. program after one year of study in the M.Sc. (Thesis) program.

Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the School's minimum CGPA of 3.2 out of 4.0. The courses to be taken in a Qualifying program will be prescribed by the academic unit. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year (two terms) is permitted. Successful completion of a Qualifying program does not guarantee admission to a degree program. Students must re-apply for admission to a degree program.

Financial Support

Financial support is highly competitive. Teaching assistantships, scholarships, and stipends from research grants may be available; however, the School cannot guarantee financial support.

2.11.6.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

2116321 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Final acceptance to the M.Sc. (Thesis) and Ph.D. programs depends on a faculty member agreeing to serve as the student's supervisor. A supervisor is not required for acceptance to the M.Sc. (Applied) program.
- Graduate Record Exam (GRE) – The GRE is required for all Ph.D. applicants to the School of Human Nutrition who are submitting non-Canadian transcripts.

2.11.6.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Human Nutrition and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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* Admission to the Winter term is open for thesis programs only.

Admission to graduate studies is competitive; accordingly, late applications are considered only as time and space permit.

International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.6.4 Human Nutrition Faculty

Director

Linda J. Wykes
Emeritus Professor

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.)
Tim A. Johns; B.Sc.(McM.), M.Sc.(Br. Col.), Ph.D.(Mich.)
Linda J. Wykes; B.Sc., M.Sc., Ph.D.(Tor.)

Associate Professors

Niladri Basu; B.Sc.(Qu.), M.Sc.(Br. Col.), Ph.D.(McG.) (Canada Research Chair) (joint appt. with Natural Resource Sciences) (Assoc. Member of Epidemiology and Biostatistics, Faculty of Medicine)
Stéphanie Chevalier; B.Sc., M.Sc., Ph.D.(Montr.), Dt. P.(OPDQ) (Assoc. Member Dept of Medicine)
Treena Delormier: B.Sc., M.Sc.(McG.), Ph.D.(Montr.), P. Dt.(OPDQ)
Kristine G. Koski; B.S., M.S.(Wash.), Ph.D.(Calif.), R.D.(U.S.)
Stan Kubow; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)
Grace S. Marquis; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(Cornell)
Hugo Melgar-Quinonez; M.Sc.(SPHM), M.D.(USAC), D.Sc.(Friedrich Schiller Univ.) (Director, McGill Institute for Global Food Security)
Hope Weiler; B.A.Sc.(Guelph), Ph.D.(McM.), R.D. (CDO) (Canada Research Chair) (Director, Mary Emily Clinical Nutrition Research Unit)

Assistant Professors

Anne-Sophie Brazeau; B.Sc., Ph.D.(Montr.), P. Dt.(OPDQ) (Director, Dietetics Education and Practice)
Daiva Nielsen; B.Sc., Ph.D.(Tor.)

Senior Faculty Lecturers

Sandy Phillips; B.Sc., M.Sc.(A.)McG.), Dt. P. (University Coordinator, Professional Practice (Stage) in Dietetics)
Maureen Rose; B.Sc., M.Ed., Ph.D.(McG.), Dt. P. (Director, Food and Nutrition Laboratories)

Faculty Lecturers

Paul-Guy Duhamel; B.Sc.(McG.), M.Sc.(Montr.), Dt. P. (Manager, Food and Nutrition Laboratories)
Mary Hendrickson; B.A.(St. Benedict), B.Sc.(Minn.), M.Sc.(Colo. St.), Dt. P.
Hugues Plourde; B.Sc.(McG.), M.Sc., Ph.D.(Montr.), Dt. P.
Joane Routhier; B.Sc.(McG.)

Sessional Lecturers

Peter Bender (PT); B.Ed., M.A.(McG.), Ph.D.(Flor. St.)
Francesca Cambria; B.Com., Gr.Dip(C'dia)
Michele Iskandar; B.Sc.(Nutr.), M.Sc.(Nutr.)(Amer. U. Beirut), Ph.D.(McG.)
Steven Landry (PT); B.Com., B.Ed., M.B.A.(McG.)
Dina Spigelski; B.A., B.Sc.(Nutr. Sc.), M.Sc.(McG.)

Associate Members

Anaesthesia: Franco Carli, Ralph Lattermann, Thomas Schricker
Food Science & Agricultural Chemistry: Stephane Bayen
Kinesiology: Ross Andersen
Medicine: Louis Beaumier, L. John Hoffer, Larry Lands, Errol B. Marliss, José Morais, Jean-François Yale
Natural Resource Sciences: Sebastien Faucher
Parasitology: Marilyn E. Scott
Adjunct Professor

Kevin A. Cockell; B.Sc., Ph.D.(Guelph) (Health Canada)

2.11.6.5 Master of Science (M.Sc.) Human Nutrition (Thesis) (45 credits)

Thesis Courses (33 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<td>Human Nutrition M.Sc. Thesis 1</td>
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<td>NUTR 681</td>
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<td>Human Nutrition M.Sc. Thesis 2</td>
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<td>NUTR 682</td>
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<td>NUTR 683</td>
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<td>Human Nutrition M.Sc. Thesis 4</td>
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Required Courses (3 credits)

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<th>Course</th>
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<tr>
<td>NUTR 695</td>
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<td>Human Nutrition Research Orientation</td>
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<td>NUTR 696</td>
<td>1</td>
<td>Human Nutrition Seminar</td>
</tr>
<tr>
<td>NUTR 697</td>
<td>1</td>
<td>MSc Final Presentation</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

3 credits in graduate-level statistics
3 credits in graduate-level research methods
3 credits in graduate-level courses (chosen in consultation with supervisory committee)

2.11.6.6 Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Dietetics Credentialing (83 credits)

This program is open to students with a B.Sc. in nutrition or an allied health profession, including biochemistry, kinesiology, physiology, or other related field, who would like to become a member of the Ordre professionnel des diététistes du Québec. Students may be required to complete a qualifying year (a variable number of required undergraduate credits), before taking the required M.Sc. Applied professional course, complementary courses, and elective courses (46 credits), followed by a Stage (Internship) component, which includes a practice based project (37 credits). On completion, students will meet OPDQ credits and professional practice requirements for licensure as a registered dietitian. A basic level or professional French competency will be required to complete the professional practice Stage component. The entrance requirement of a CGPA of 3.5 must be maintained throughout the program.

Required Courses (71 credits)

<table>
<thead>
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<th>Course</th>
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<td>EDPC 501</td>
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<td>Helping Relationships</td>
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<tr>
<td>NUTR 501</td>
<td>3</td>
<td>Nutrition in Developing Countries</td>
</tr>
<tr>
<td>NUTR 503</td>
<td>3</td>
<td>Bioenergetics and the Lifespan</td>
</tr>
<tr>
<td>NUTR 513</td>
<td>3</td>
<td>Credentialing in Dietetics</td>
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<td>NUTR 515</td>
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<td>Dietetics French Examination</td>
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<td>NUTR 545</td>
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<td>Clinical Nutrition 2</td>
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<td>NUTR 602</td>
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<td>Nutritional - Status Assessment</td>
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<td>Human Nutrition Research Methods</td>
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<td>Graduate Professional Practice 2 Management</td>
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<td>Dietetics Comprehensive Examination</td>
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<td>Professional Dietetics Project</td>
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### Complementary Courses (9 credits)

3 credits of statistics from the following:

<table>
<thead>
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<tr>
<td>EPIB 507</td>
<td>(3)</td>
<td>Biostats for Health Sciences</td>
</tr>
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<td>PSYC 650</td>
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3 credits from the following:

<table>
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</thead>
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<tr>
<td>ANSC 551</td>
<td>(3)</td>
<td>Carbohydrate and Lipid Metabolism</td>
</tr>
<tr>
<td>ANSC 552</td>
<td>(3)</td>
<td>Protein Metabolism and Nutrition</td>
</tr>
<tr>
<td>ANSC 560</td>
<td>(3)</td>
<td>Biology of Lactation</td>
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<tr>
<td>EDPK 654</td>
<td>(3)</td>
<td>Sport Psychology</td>
</tr>
<tr>
<td>EDPC 504</td>
<td>(3)</td>
<td>Practicum: Interviewing Skills</td>
</tr>
<tr>
<td>EDPE 502</td>
<td>(3)</td>
<td>Theories of Human Development</td>
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<tr>
<td>FDSC 537</td>
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<td>Nutraceutical Chemistry</td>
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<td>FDSC 538</td>
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<td>Food Science in Perspective</td>
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<tr>
<td>FDSC 545</td>
<td>(3)</td>
<td>Advances in Food Microbiology</td>
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<tr>
<td>NUTR 502</td>
<td>(3)</td>
<td>Independent Study 2</td>
</tr>
<tr>
<td>NUTR 512</td>
<td>(3)</td>
<td>Herbs, Foods and Phytochemicals</td>
</tr>
<tr>
<td>NUTR 551</td>
<td>(3)</td>
<td>Analysis of Nutrition Data</td>
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<tr>
<td>NUTR 608</td>
<td>(3)</td>
<td>Special Topics 1</td>
</tr>
<tr>
<td>NUTR 610</td>
<td>(3)</td>
<td>Maternal and Child Nutrition</td>
</tr>
<tr>
<td>NUTR 641</td>
<td>(3)</td>
<td>Advanced Global Food Security</td>
</tr>
</tbody>
</table>

### Elective Courses (3 credits)

To be chosen, at the 500 level or higher, in consultation with the Program Coordinator.

### Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Practicum (45 credits)

### Practicum (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>NUTR 656</td>
<td>(3)</td>
<td>M.Sc. (Applied) Practicum 1</td>
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<tr>
<td>NUTR 657</td>
<td>(3)</td>
<td>M.Sc. (Applied) Practicum 2</td>
</tr>
<tr>
<td>NUTR 658</td>
<td>(3)</td>
<td>M.Sc. (Applied) Practicum 3</td>
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<tr>
<td>NUTR 659</td>
<td>(3)</td>
<td>M.Sc. (Applied) Practicum 4</td>
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</table>

### Required Courses (6 credits)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>NUTR 651</td>
<td>(3)</td>
<td>M.Sc. (Applied) Nutrition 1</td>
</tr>
<tr>
<td>NUTR 660</td>
<td>(1)</td>
<td>M.Sc. (Applied) Nutrition 2</td>
</tr>
</tbody>
</table>
Human Nutrition Research Orientation (1)  NUTR 695
Human Nutrition Seminar (1)  NUTR 696

Complementary Courses (18 credits)
3 credits in statistics at the 500 level or higher
3 credits in research methods at the 500 level or higher
12 credits of course work, at the 500 level or higher, in Nutrition, Animal Science, or Food Science chosen in consultation with the student's supervisor.

Elective Courses (9 credits)
9 credits of 500-level or higher courses in consultation with the student's academic adviser or supervisor.

2.11.6.8 Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Project (45 credits)

Research Project (12 credits)
NUTR 652 (3)  M.Sc. (Applied) Project 1
NUTR 653 (3)  M.Sc. (Applied) Project 2
NUTR 654 (3)  M.Sc. (Applied) Project 3
NUTR 655 (3)  M.Sc. (Applied) Project 4

Required Courses (6 credits)
NUTR 651 (3)  M.Sc. (Applied) Nutrition 1
NUTR 660 (1)  M.Sc. (Applied) Nutrition 2
NUTR 695 (1)  Human Nutrition Research Orientation
NUTR 696 (1)  Human Nutrition Seminar

Complementary Courses (18 credits)
3 credits of 500-level or higher Statistics.
3 credits in research methods at the 500 level or higher
12 credits of course work, at the 500 level or higher, in Nutrition, Animal Science, or Food Science chosen in consultation with the student's supervisor.

Elective Courses (9 credits)
9 credits of 500-level or higher courses in consultation with the student’s academic adviser or supervisor.

2.11.6.9 Doctor of Philosophy (Ph.D.) Human Nutrition

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
NUTR 695 (1)  Human Nutrition Research Orientation
NUTR 701 (0)  Doctoral Comprehensive Examination
NUTR 796 (1)  PhD Research Presentation
2.11.6.10 Graduate Diploma (Gr. Dip.) Registered Dietitian Credentialing (30 credits)

The Graduate Diploma is open to students who have completed a graduate degree with the School of Human Nutrition including NUTR 513 Credentialing in Dietetics.

Required Courses (30 credits)

- NUTR 612 (8) Graduate Professional Practice 2 Management
- NUTR 613 (14) Graduate Professional Practice 3 Clinical Nutrition
- NUTR 614 (8) Graduate Professional Practice 4 Community Nutrition

2.11.7 Natural Resource Sciences

2.11.7.1 Location

Department of Natural Resource Sciences
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/nrs

2.11.7.2 About Natural Resource Sciences

The Department of Natural Resource Sciences offers programs leading to M.Sc. and Ph.D. degrees in:

- Agricultural Economics (M.Sc. only)
- Entomology (Environment and Neotropical Environment options available)
- Microbiology (Bioinformatics and Environment options available)
- Renewable Resources (this includes Forest Science, Micrometeorology, Soil Science, and Wildlife Biology; Environment and Neotropical Environment options available)

An interdisciplinary option in Bioinformatics for doctoral students in Microbiology is also available.

The Department possesses, or has access to, excellent facilities for laboratory and field research. Affiliated with the Department are the Lyman Entomological Museum and Research Laboratory, the Molson Nature Reserve, the Morgan Arboretum, and the Ecomuseum of the St. Lawrence Valley Natural History Society; details are available on the Natural Resource Sciences website.

Master of Science Degrees

section 2.11.7.5: Master of Science (M.Sc.) Agricultural Economics (Thesis) (46 credits)

This program provides students with applied economic concepts and tools to identify, define, and analyze economic problems affecting the performance of the agri-food sector and the environment. The ideal prior preparation is an undergraduate degree in Agricultural Economics or Economics, including undergraduate courses in intermediate economic theory (micro and macro), calculus, algebra, statistics, and econometrics.

Attention is given to the development of analytical skills in the broad areas of agricultural, environmental, and ecological economics. Students may specialize, by way of their research program, in agribusiness, development, finance, marketing and trade, policy, and resource economics. The program prepares graduates for rewarding careers in research, analysis, and decision-making in academia, private and NGO sectors, and government.

section 2.11.7.6: Master of Science (M.Sc.) Entomology (Thesis) (45 credits)

Graduate students in the entomology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include terrestrial arthropod ecology, physiology, zoogeography, diversity, and systematics. Our students typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances both theory and applied management of ecosystems. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

section 2.11.7.7: Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits)

Please contact the Department for more information about this program.
section 2.11.7.8: Master of Science (M.Sc.) Entomology (Thesis): Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 2.11.7.9: Master of Science (M.Sc.) Microbiology (Thesis) (45 credits)

Graduate students in the microbiology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program range from the study of microbial diversity in extreme environments, either natural or man-induced, to the role of microbes in managed ecosystems, such as in agriculture and forests. Our students typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances our fundamental knowledge about microorganisms as well as leads to improved efficiencies of our managed ecosystems. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

section 2.11.7.10: Master of Science (M.Sc.) Microbiology (Thesis): Environment (46 credits)

Please contact the Department for more information about this program.

section 2.11.7.11: Master of Science (M.Sc.) Renewable Resources (Thesis) (45 credits)

Graduate students in the renewable resources program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include environmental and ecological economics, environmental health and toxicology, forest ecology, fish and fisheries biology, landscape ecology, limnology, micrometeorology, soil science, and wildlife biology. They typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances both theory and applied management of natural resources. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

section 2.11.7.12: Master of Science (M.Sc.) Renewable Resources (Thesis): Environment (46 credits)

Please contact the Department for more information about this program.

section 2.11.7.13: Master of Science (M.Sc.) Renewable Resources (Thesis): Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 2.11.7.14: Master of Science (M.Sc.) Renewable Resources (Non-Thesis): Environmental Assessment (45 credits)

This program is currently not offered.

Ph.D. Degrees in Entomology, Microbiology, or Renewable Resources (Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology)

section 2.11.7.15: Doctor of Philosophy (Ph.D.) Entomology

Graduate students in the entomology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include terrestrial arthropod ecology, physiology, zoogeography, diversity, and systematics. Our students typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances both theory and applied management of ecosystems. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

section 2.11.7.16: Doctor of Philosophy (Ph.D.) Entomology: Environment

Please contact the Department for more information about this program.

section 2.11.7.17: Doctor of Philosophy (Ph.D.) Entomology: Neotropical Environment

Please contact the Department for more information about this program.

section 2.11.7.18: Doctor of Philosophy (Ph.D.) Microbiology

Graduate students in the microbiology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program range from the study of microbial diversity in extreme environments, either natural or man-induced, to the role of microbes in managed ecosystems, such as in agriculture and forests. Our students typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances our fundamental knowledge about microorganisms and leads to improved efficiencies of our managed ecosystems. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.
Doctor of Philosophy (Ph.D.) Microbiology: Bioinformatics

Please contact the Department for more information about this program.

Doctor of Philosophy (Ph.D.) Microbiology: Environment

Please contact the Department for more information about this program.

Doctor of Philosophy (Ph.D.) Renewable Resources

Graduate students in the renewable resources program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include environmental and ecological economics, environmental health and toxicology, forest ecology, fish and fisheries biology, landscape ecology, limnology, micrometeorology, soil science, and wildlife biology. They typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances both theory and applied management of natural resources. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

Doctor of Philosophy (Ph.D.) Renewable Resources: Environment

Please contact the Department for more information about this program.

Doctor of Philosophy (Ph.D.) Renewable Resources: Neotropical Environment

Please contact the Department for more information about this program.

Natural Resource Science Admission Requirements and Application Procedures

Admission Requirements

M.Sc. Thesis (Agricultural Economics)

Direct admission to the M.Sc. requires the completion of a B.Sc. in Agricultural Economics or a closely related area, with the minimum equivalent cumulative grade point average (CGPA) of 3.0/4.0 (second class–upper division) or minimum grade point average (GPA) of 3.2/4.0 during the last two years of full-time university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

The ideal preparation includes courses in agricultural economics, economic theory (intermediate micro and macro), calculus, linear algebra, and statistics. Students with deficiencies in these areas will be required to take additional courses as part of their degree program.

M.Sc. Thesis (Entomology, Microbiology, Renewable Resources)

Candidates are required to have a bachelor's degree with a minimum equivalent CGPA of 3.0/4.0 (second class–upper division) or a minimum GPA of 3.2/4.0 during the last two years of full-time university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

M.Sc. in Renewable Resources (Non-Thesis) – Environmental Assessment Option

Applications are not being accepted for the current academic year; the program is currently under review.

Ph.D. Thesis (Entomology, Microbiology, Renewable Resources)

Candidates are normally required to hold an M.Sc. degree and will be judged primarily on their ability to conduct an original and independent research study.

Qualifying Program

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected, may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. Successful completion of a Qualifying program does not guarantee admission to a degree program.

Financial Aid

Financial aid is available but limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided through a scholarship/award and/or by the student’s supervisor. Academic units cannot guarantee financial support via teaching assistantships.

Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Additional Requirements

The items and clarifications below are additional requirements set by this department:
• Acceptance to all programs normally depends on a staff member agreeing to serve as the student’s supervisor and the student obtaining financial support.
• The GRE – not required, but highly recommended.

2.11.7.3.3 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Natural Resource Sciences and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td></td>
</tr>
<tr>
<td>Sept. 15</td>
<td>March 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td></td>
</tr>
<tr>
<td>Feb. 15</td>
<td>Aug. 31</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.7.4 Natural Resource Sciences Faculty

Chair
Brian Driscoll

Graduate Program Director
Benoit Côté

Program Director - Agricultural Economics
Paul J. Thomassin

Emeritus Professors
David M. Bird; B.Sc.(Guelph), M.Sc., Ph.D.(McG.) – Wildlife Biology
William H. Hendershot; B.Sc.(Tor.), M.Sc.(McG.), Ph.D.(Br. Col.) – Soil Science
Edmund S. Idziak; B.Sc.(Agr.), M.Sc.(McG.), D.Sc.(Delft) – Microbiology
Angus F. MacKenzie; B.S.A., M.Sc.(Sask.), Ph.D.(Cornell) – Soil Science
Peter H. Schuepp; Dipl.Sc.Nat.(Zür.), Ph.D.(Tor.) – Agricultural Physics
Robin K. Stewart; B.Sc.(Agr.), Ph.D.(Glas.) – Entomology

Professors
Peter Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (joint appt. with Geography and McGill School of Environment) – Environmental Policy and Ethics
James W. Fyles; B.Sc., M.Sc.(Vic., BC), Ph.D.(Alta.) (Tomlinson Chair in Forest Ecology) – Forest Resources
Joann Whalen; B.Sc.(Agr.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.) – Soil Science (William Dawson Scholar)
Lyle G. Whyte; B.Sc.(Regina), Ph.D.(Wat.) – Microbiology

Associate Professors
Niladri Basu; B.Sc.(Qu.), M.Sc.(Br. Col.), Ph.D.(McG.) (Canada Research Chair) (joint appt. with School of Human Nutrition) – Ecotoxicology
Elena Bennett; B.A.(Oberlin), M.S., Ph.D.(Wisc.) (joint appt. with McGill School of Environment) – Ecosystem Ecology (EWR Steacie Fellowship)
Christopher Buddle; B.Sc.(Guelph), Ph.D.(Alta.) – Forest Insect Ecology
Jeffrey Cardille; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), M.Sc., PhD.(Wisc.) (joint appt. with McGill School of Environment) – Landscape Ecology
Benoit Côté; B.Sc., Ph.D.(Laval) – Forest Resources
Brian T. Driscoll; B.Sc., Ph.D.(McM.) – Microbiology
### Associate Professors

Gary B. Dunphy; B.Sc.(New Br.), M.Sc., Ph.D.(Nfld.) – Entomology

Sebastien Faucher; B.Sc., Ph.D.(Montr.) – Microbiology

Gordon Hickey; B.Sc.(Melb.), Ph.D.(Br. Col.), EMPA(ANZSOG, Monash) – Sustainable Natural Resource Management (William Dawson Scholar)

Murray Humphries; B.Sc.(Manit.), M.Sc.(Alta.), Ph.D.(McG.) – Wildlife Biology (Northern Research Chair)

Nicolas Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Kent & Univ. Autonoma de Barcelona), Ph.D.(Univ. Autonoma de Barcelona) (joint appt. with McGill School of Environment) – Ecological Economics

Ian B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qa.) – Micrometeorology

Paul J. Thomassin; B.Sc.(McG.), M.S., Ph.D.(Hawaii Pac.) – Agricultural and Environmental Economics

### Assistant Professors

Kyle Elliott; B.Sc.(Br. Col.), M.Sc., Ph.D.(Manit.) (Canada Research Chair) – Avian Conservation Biology

Aurélie Harou; B.Sc.(Sus.), M.Sc.(Calif., Davis), Ph.D.(Cornell)

Jessica Head; B.Sc.(McG.), Ph.D.(Ott.) – Ecotoxicology

### Associate Member

Christopher Barrington (School of Environment)

David Green (Redpath Museum)

### Adjunct Professors

Asim Biswas

Doug Crump

Kimberly Fernie

Charles W. Greer

Suren Kulshreshtha

Baoluo Ma

Christopher Solomon

### Affiliate Member

Geoffrey Sunahara

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### Master of Science (M.Sc.) Agricultural Economics (Thesis) (46 credits)

Students may specialize, by way of their research program, in agri-business, development, finance, marketing and trade, policy, and resource and ecological economics.

#### Thesis Courses (27 credits)

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<tr>
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<th>Description</th>
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<td>AGEC 692</td>
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<td>M.Sc. Thesis 2</td>
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<td>AGEC 693</td>
<td>(6)</td>
<td>M.Sc. Thesis 3</td>
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<td>AGEC 694</td>
<td>(6)</td>
<td>M.Sc. Thesis 4</td>
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<td>AGEC 695</td>
<td>(6)</td>
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#### Required Course

(1 credit)

<table>
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<tbody>
<tr>
<td>AGEC 690</td>
<td>(1)</td>
<td>Seminar</td>
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</table>
Complementary Courses (18 credits)

6 credits, two theory courses chosen from:

AGEC 633 (3) Environmental and Natural Resource Economics
ECON 610 (3) Microeconomic Theory 1
ECON 611 (3) Microeconomic Theory 2
ECON 620 (3) Macroeconomic Theory 1
ECON 621 (3) Macroeconomic Theory 2

3 credits, one quantitative methods course chosen from:

AEMA 610 (3) Statistical Methods 2
ECON 525 (3) Project Analysis
ECON 662 (6) Econometrics
ECON 665 (3) Quantitative Methods
MGSC 679 (3) Applied Deterministic Optimization

9 credits, three 3-credit courses at the 500, 600, or 700 level, at least one of which must be in Agricultural Economics, chosen in consultation with the Agricultural Economics Adviser.

2.11.7.6 Master of Science (M.Sc.) Entomology (Thesis) (45 credits)

Thesis Courses (36 credits)

NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 693 (12) M.Sc. Thesis Research 3

Required Courses (3 credits)

NRSC 643 (1) Graduate Seminar 1
NRSC 644 (1) Graduate Seminar 2
NRSC 651 (1) Graduate Seminar 3

Complementary Courses (6 credits)

Two 3-credit courses at the 500, 600, or 700 level; normally one of these will be a course in statistics.

2.11.7.7 Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits)

Thesis Courses (36 credits)

NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 693 (12) M.Sc. Thesis Research 3

Required Courses (7 credits)

ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3
NRSC 651 (1) Graduate Seminar 3

**Complementary Courses (3 credits)**

One of the following courses:

ENVR 519 (3) Global Environmental Politics
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment 4

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

**2.11.7.8 Master of Science (M.Sc.) Entomology (Thesis): Neotropical Environment (48 credits)**

**Thesis Courses (36 credits)**

NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 693 (12) M.Sc. Thesis Research 3

**Required Courses (9 credits)**

BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy
NRSC 643 (1) Graduate Seminar 1
NRSC 644 (1) Graduate Seminar 2
NRSC 651 (1) Graduate Seminar 3

Note: Participation in the MSE-Panama Symposium presentation in Montreal is also required.

**Elective Courses (3 credits)**

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

**2.11.7.9 Master of Science (M.Sc.) Microbiology (Thesis) (45 credits)**

**Thesis Courses (36 credits)**

NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 693 (12) M.Sc. Thesis Research 3

**Required Courses (3 credits)**

NRSC 643 (1) Graduate Seminar 1
NRSC 644 (1) Graduate Seminar 2
Complementary Courses (6 credits)
Two 3-credit 500-, 600-, or 700-level courses; normally one of these will be a course in statistics.

2.11.7.10 Master of Science (M.Sc.) Microbiology (Thesis): Environment (46 credits)

Thesis Courses (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSC 691</td>
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<td>M.Sc. Thesis Research 1</td>
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<tr>
<td>NRSC 692</td>
<td>12</td>
<td>M.Sc. Thesis Research 2</td>
</tr>
<tr>
<td>NRSC 693</td>
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<td>M.Sc. Thesis Research 3</td>
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Required Courses (7 credits)

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ENV 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENV 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENV 651</td>
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<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENV 652</td>
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<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>NRSC 651</td>
<td>1</td>
<td>Graduate Seminar 3</td>
</tr>
</tbody>
</table>

Complementary Course (3 credits)

One of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENV 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENV 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
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<td>Sustainable Landscapes</td>
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<tr>
<td>ENV 630</td>
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<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENV 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.7.11 Master of Science (M.Sc.) Renewable Resources (Thesis) (45 credits)

Includes Micrometeorology, Forest Science, Soil Science and Wildlife Biology as areas of research.

Thesis Courses (36 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSC 691</td>
<td>12</td>
<td>M.Sc. Thesis Research 1</td>
</tr>
<tr>
<td>NRSC 692</td>
<td>12</td>
<td>M.Sc. Thesis Research 2</td>
</tr>
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<td>NRSC 693</td>
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<td>M.Sc. Thesis Research 3</td>
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Required Courses (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>NRSC 643</td>
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</tr>
<tr>
<td>NRSC 644</td>
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<td>Graduate Seminar 2</td>
</tr>
<tr>
<td>NRSC 651</td>
<td>1</td>
<td>Graduate Seminar 3</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)

Two 3-credit courses at the 500 level or higher recommended by the supervisory committee; one of which must be in quantitative methods/techniques.
2.11.7.12 Master of Science (M.Sc.) Renewable Resources (Thesis): Environment (46 credits)

Thesis Courses (33 credits)
NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 694 (9) M.Sc. Thesis Research 4

Required Courses (7 credits)

ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3
NRSC 651 (1) Graduate Seminar 3

Complementary Courses (6 credits)

3 credits, one of the following courses:
ENVR 519 (3) Global Environmental Politics
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment 4

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

3 credits of statistics at the 500, 600, or 700 level.

2.11.7.13 Master of Science (M.Sc.) Renewable Resources (Thesis): Neotropical Environment (48 credits)

Thesis Courses (36 credits)
NRSC 691 (12) M.Sc. Thesis Research 1
NRSC 692 (12) M.Sc. Thesis Research 2
NRSC 693 (12) M.Sc. Thesis Research 3

Required Courses (9 credits)
BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy
NRSC 643 (1) Graduate Seminar 1
NRSC 644 (1) Graduate Seminar 2
NRSC 651 (1) Graduate Seminar 3

Note: Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Elective Courses (3 credits)
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

2.11.7.14 Master of Science (M.Sc.) Renewable Resources (Non-Thesis): Environmental Assessment (45 credits)

**This program is currently not offered.**

The non-thesis master’s in Renewable Resources: Environmental Assessment option is normally taken over a one year cycle beginning in the Winter term and concluding in the Fall term. It is comprised of three interrelated elements: graduate-level courses, primarily given in the Winter term, a Summer term internship, and a project-related research paper, which is completed in the Fall term. The program is aimed at environmental assessment professionals and advanced environmental science scholars planning for careers in the public and private sector agencies, which guide environmental impact assessment, integrated assessment, and sustainable development in Canada and internationally. McGill's non-thesis master’s in Environmental Assessment is offered in conjunction with a Memorandum of Understanding (MOU) with the United Nations Environment Program (UNEP - 2003), which designates the Faculty of Agricultural and Environmental Sciences as a UNEP Collaborating Centre on Environmental Assessment. An important component of the MOU is that the Faculty advance teaching and training through the development of course offerings that enable students to prepare for contributing to sustainable development by utilizing the excellent materials provided by UNEP and other national and international agencies.

Research Project (9 credits)

NRSC 616  
Environmental Assessment Project Paper

Required Internship (15 credits)

NRSC 615  
Environmental Assessment Internship

Required Courses (15 credits)

NRSC 610  
Advanced Environmental Assessment

NRSC 611  
Environmental Assessment Knowledge Base

NRSC 612  
Environmental Assessment and Sustainable Development

NRSC 613  
Strategic and Sectoral Environmental Assessment

NRSC 614  
Meeting Environmental Assessment Regulations

Complementary Courses (6 credits)

500- or 600-level relevant courses to be chosen in consultation with the Supervisor and Program Director.

2.11.7.15 Doctor of Philosophy (Ph.D.) Entomology

Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

NRSC 701  
Ph.D. Comprehensive Examination

NRSC 751  
Graduate Seminar 4

NRSC 752  
Graduate Seminar 5

NRSC 753  
Graduate Seminar 6

NRSC 754  
Graduate Seminar 7

Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.
2.11.7.16 Doctor of Philosophy (Ph.D.) Entomology: Environment

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3
- NRSC 701 (0) Ph.D. Comprehensive Examination
- NRSC 754 (0) Graduate Seminar 7

Coursework
Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Complementary Courses
One course chosen from the following:
- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.7.17 Doctor of Philosophy (Ph.D.) Entomology: Neotropical Environment

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- BIOL 640 (3) Tropical Biology and Conservation
- ENVR 610 (3) Foundations of Environmental Policy
- NRSC 701 (0) Ph.D. Comprehensive Examination
- NRSC 751 (0) Graduate Seminar 4
- NRSC 752 (0) Graduate Seminar 5
- NRSC 753 (0) Graduate Seminar 6
- NRSC 754 (0) Graduate Seminar 7
Note: Participation in the MSE-Panama Symposium presentation in Montreal is also required.

**Elective Courses**
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

**2.11.7.18 Doctor of Philosophy (Ph.D.) Microbiology**
Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology.

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>NRSC 751</td>
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</tr>
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<td>Graduate Seminar 5</td>
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<tr>
<td>NRSC 753</td>
<td>(0)</td>
<td>Graduate Seminar 6</td>
</tr>
<tr>
<td>NRSC 754</td>
<td>(0)</td>
<td>Graduate Seminar 7</td>
</tr>
</tbody>
</table>

**Coursework**
Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

**2.11.7.19 Doctor of Philosophy (Ph.D.) Microbiology: Bioinformatics**

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
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<tr>
<td>COMP 616D1</td>
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<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>NRSC 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>NRSC 751</td>
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<td>Graduate Seminar 4</td>
</tr>
<tr>
<td>NRSC 752</td>
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<tr>
<td>NRSC 754</td>
<td>(0)</td>
<td>Graduate Seminar 7</td>
</tr>
</tbody>
</table>

**Complementary Courses**
6 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
</tbody>
</table>
Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

2.11.7.20 Doctor of Philosophy (Ph.D.) Microbiology: Environment

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3
- NRSC 701 (0) Ph.D. Comprehensive Examination
- NRSC 754 (0) Graduate Seminar 7

Coursework
Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Complementary Courses
One course chosen from the following:
- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.7.21 Doctor of Philosophy (Ph.D.) Renewable Resources

Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- NRSC 701 (0) Ph.D. Comprehensive Examination
- NRSC 751 (0) Graduate Seminar 4
Coursework
Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

2.11.7.22 Doctor of Philosophy (Ph.D.) Renewable Resources: Environment

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
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<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>NRSC 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>NRSC 754</td>
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<td>Graduate Seminar 7</td>
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</table>

Coursework
Course requirements are specified by the staff in the discipline but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Complementary Courses
One course chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
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<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
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<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
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<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.7.23 Doctor of Philosophy (Ph.D.) Renewable Resources: Neotropical Environment

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
<thead>
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<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>3</td>
<td>Tropical Biology and Conservation</td>
</tr>
</tbody>
</table>
Elective Courses
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

2.11.8 Parasitology

2.11.8.1 Location
Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/parasitology

2.11.8.2 About Parasitology
The Institute of Parasitology offers M.Sc. and Ph.D. thesis research degrees in Parasitology and non-thesis Graduate Certificate and M.Sc. (Applied) degrees in Biotechnology (Information on the Biotechnology programs is found in the section 2.11.4: Biotechnology section). For the Ph.D. program, it is possible to add a Bioinformatics or Environment option.

The Institute of Parasitology teaches and researches the phenomenon of parasitism in humans, livestock, and other animals, and the control of parasitic diseases. The interface of parasitism/immunity/nutrition is also examined in the context of the host-parasite interaction. Current research involves:

- molecular biology;
- molecular genetics;
- biochemistry;
- bioinformatics;
- pharmacology;
- control and drug resistance;
- immunology;
- epidemiology;
- biology;
- neurobiology;
- drug discovery;
- the ecology of parasitic organisms, such as helminths and protozoa, viruses, and cancer cells.

The non-thesis programs in Biotechnology offer course-based curricula with practical training in laboratory courses and internships.

The Institute is housed in its own building adjacent to the Macdonald Campus Library and has well-equipped modern laboratories with excellent facilities for molecular research, and includes a confocal suite. Small and large animal facilities are available on the Macdonald campus. The Institute is part of a Quebec inter-university research centre, the Centre for Host-Parasite Interactions, and is affiliated with the J.D. MacLean Centre for Tropical Diseases at the McGill University Health Centre (MUHC).

Graduates typically go on to academic and research careers; enter private industry in the biotechnology and pharmaceutical sectors in research, management, technical services, and sales; or accept positions in the health, agriculture, food safety, and other government sectors.
Parasitology Programs

**section 2.11.8.5: Master of Science (M.Sc.) Parasitology (Thesis) (45 credits)**

A research project is undertaken in an area of parasitology under the direction of a supervisor, and a thesis is produced. Coursework is minimal. Graduates have gone on to medical school, to teaching positions, or have found employment in scientific fields.

**section 2.11.8.6: Doctor of Philosophy (Ph.D.) Parasitology**

An advanced, original research project is undertaken in an area of parasitology supervised by faculty staff. Coursework is minimal. Graduates are well suited for teaching positions in academia or scientific careers in a university, private industry, or government.

**section 2.11.8.7: Doctor of Philosophy (Ph.D.) Parasitology: Bioinformatics**

An advanced, original research project in an area of parasitology is undertaken supervised by faculty staff, and a thesis is produced. Additional coursework in the field of bioinformatics is required for this option. Graduates are well suited for a teaching or research career, especially where there is particular emphasis on the science of bioinformatics.

**section 2.11.8.8: Doctor of Philosophy (Ph.D.) Parasitology: Environment**

An advanced, original research project in an area of parasitology is undertaken supervised by faculty staff, and a thesis is produced. There is additional coursework on environmental topics for this option. Graduates are prepared for careers in academia, industry, or government, especially where the focus is on environmental protection or management of valuable natural resources, such as water.

### 2.11.8.3 Parasitology Admission Requirements and Application Procedures

#### 2.11.8.3.1 Admission Requirements

Candidates for either the M.Sc. or the Ph.D. thesis research degree should possess a bachelor's degree in the biological or medical sciences with a minimum cumulative grade point average (CGPA) of 3.2/4.0 (second class–upper division). High grades are expected in courses considered by the academic unit to be preparatory to the graduate program. Previous experience in parasitology is not essential.

#### Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected, may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. Successful completion of a Qualifying program does not guarantee admission to a degree program.

#### Financial Support

Financial support is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student’s supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds. For information on awards and funding opportunities, see:

- [www.mcgill.ca/gradapplicants/funding](http://www.mcgill.ca/gradapplicants/funding);
- [www.mcgill.ca/parasitology/graduatestudies/admissions](http://www.mcgill.ca/parasitology/graduatestudies/admissions);
- [www.mcgill.ca/macdonald/prospective/gradstudies/funding](http://www.mcgill.ca/macdonald/prospective/gradstudies/funding);
- [www.mcgill.ca/macdonald/gradstudents/gradawards](http://www.mcgill.ca/macdonald/gradstudents/gradawards); and

#### 2.11.8.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

**2118321 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- Acceptance to all thesis research programs depends on a staff member agreeing to serve as the student’s supervisor and the student obtaining financial support.
- International students are strongly encouraged to secure funding from their home country or international agencies.
- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Parasitology website at [www.mcgill.ca/parasitology/graduatestudies/admission](http://www.mcgill.ca/parasitology/graduatestudies/admission) for full details.
2.11.8.3.3 Application Dates and Deadlines

Application dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Institute of Parasitology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.8.4 Parasitology Faculty

**Director**

Timothy G. Geary

**Professors**

Timothy G. 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 N. Beech; B.Sc.(Nott.), Ph.D.(Edin.)

Elias Georges; B.Sc., Ph.D.(McG.)

Armando Jardim; B.Sc., Ph.D.(Vic., BC)

Petra Rohrbach; B.Sc.(McG.), Ph.D.(Heidel.)

Reza Salavati; B.A., M.A.(Calif. St.), Ph.D.(Wesl.)

**Assistant Professors**

Jerry Aldridge; B.Sc.(Lenoir-Rhyne), Ph.D.(Wake Forest)

Jianguo Xia; B.Sc.(Peking), M.Sc., Ph.D.(Alta.) (*Canada Research Chair in Bioinformatics and Big Data Analytics*)

**Associate Members**

Gregory J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ott.)

Momar Ndao; B.Sc., DVM(Dakar), M.Sc., Ph.D.(IMFA, Belgium)

Martin Olivier; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

Mary Stevenson; B.A.(Hood Coll.), M.Sc., Ph.D.(CUA)

Brian Ward; M.Sc.(Oxf.), M.D.,C.M.(McG.), DTM&H(Lond.)

**Adjunct Professors**

Boakye Boatin; M.D.(Ghana), M.Sc.(Liv.), M.Phil.(Lond.)

Sean Forrester; B.Sc.(Cape Breton), M.Sc.(Lake.), Ph.D.(McG.)

Tatiana Scorza Dagert; B.Sc.(Los Andes, Venezuela), M.Sc., Ph.D.(Vrije, Belgium)

Traian Sulea; M.Sc.(Polytechnic, Timisoara), Ph.D.(West, Timișoara)
2.11.8.5 Master of Science (M.Sc.) Parasitology (Thesis) (45 credits)

Thesis Courses (35 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PARA 687</td>
<td>10</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>PARA 688</td>
<td>10</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>PARA 689</td>
<td>12</td>
<td>Thesis Research 3</td>
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Required Courses (10 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PARA 606</td>
<td>2</td>
<td>Parasitology Seminar</td>
</tr>
<tr>
<td>PARA 607</td>
<td>2</td>
<td>Parasitology Research Seminar</td>
</tr>
<tr>
<td>PARA 635</td>
<td>3</td>
<td>Cell Biology and Infection</td>
</tr>
<tr>
<td>PARA 655</td>
<td>3</td>
<td>Host-Parasite Interactions</td>
</tr>
</tbody>
</table>

Other course work in related subjects may be required, depending upon the candidate's background and research orientation.

2.11.8.6 Doctor of Philosophy (Ph.D.) Parasitology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (10 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARA 635</td>
<td>3</td>
<td>Cell Biology and Infection</td>
</tr>
<tr>
<td>PARA 655</td>
<td>3</td>
<td>Host-Parasite Interactions</td>
</tr>
<tr>
<td>PARA 701</td>
<td>0</td>
<td>PhD Comprehensive Exam</td>
</tr>
<tr>
<td>PARA 710</td>
<td>2</td>
<td>Parasitology Ph.D. Seminar 1</td>
</tr>
<tr>
<td>PARA 711</td>
<td>2</td>
<td>Parasitology Ph.D. Seminar 2</td>
</tr>
</tbody>
</table>

* Note: In the first year of the doctoral program, the candidates must successfully complete a written thesis proposal and make an oral presentation on their proposed research to fulfill PARA 700, the comprehensive component.

Depending upon the candidate's background, other course work may be required.

2.11.8.7 Doctor of Philosophy (Ph.D.) Parasitology: Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (13 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
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<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>PARA 635</td>
<td>3</td>
<td>Cell Biology and Infection</td>
</tr>
</tbody>
</table>
### Complementary Courses (6 credits)

6 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>3</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>3</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>3</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>3</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

### 2.11.8.8 Doctor of Philosophy (Ph.D.) Parasitology: Environment

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses (14 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>PARA 701</td>
<td>0</td>
<td>PhD Comprehensive Exam</td>
</tr>
<tr>
<td>PARA 710</td>
<td>2</td>
<td>Parasitology Ph.D. Seminar 1</td>
</tr>
<tr>
<td>PARA 711</td>
<td>2</td>
<td>Parasitology Ph.D. Seminar 2</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

One of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARA 635</td>
<td>3</td>
<td>Cell Biology and Infection</td>
</tr>
<tr>
<td>PARA 655</td>
<td>3</td>
<td>Host-Parasite Interactions</td>
</tr>
</tbody>
</table>

One course chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

Or another graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.
2.11.9 Plant Science

2.11.9.1 Location

Department of Plant Science
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: www.mcgill.ca/plant

2.11.9.2 About Plant Science

The Department offers an M.Sc. and a Ph.D. in Plant Science with options in Bioinformatics, Environment, or Neotropical Environment, and provides for study in all fields of plant science. Research facilities—both field and laboratory—are available for investigations in plant breeding, crop physiology, crop management, crop quality, plant ecology, the epidemiology and biology of plant diseases, epigenetics, biosystematics, recombinant DNA technology, mycology, weed biology, tissue culture, plant biochemistry, and bioinformatics. Facilities include:

- Horticultural Research Centre;
- Emile A. Lods Agronomy Research Centre;
- greenhouses;
- growth cabinets;
- McGill University Herbarium;
- CT Scanning laboratory;
- Level 2 Quarantine Facility.

An advisory committee is named for each student and has the responsibility of developing the program of study appropriate to the student's background and area of specialization.

section 2.11.9.5: Master of Science (M.Sc.) Plant Science (Thesis) (45 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field.

section 2.11.9.6: Master of Science (M.Sc.) Plant Science (Thesis): Bioinformatics (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. The goal of the Bioinformatics option is to train students to become researchers in the interdisciplinary field of bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This option has an added emphasis on bioinformatics, including additional seminars. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field.

section 2.11.9.7: Master of Science (M.Sc.) Plant Science (Thesis): Environment (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field. This Environment graduate option has an added emphasis on environmental sciences, including additional courses and seminars. It is aimed at students who wish to take an interdisciplinary approach in their graduate research on environmental issues and who wish to benefit from interactions with students from a wide range of disciplines.

section 2.11.9.8: Master of Science (M.Sc.) Plant Science (Thesis): Neotropical Environment (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field. This option has an added emphasis on neotropical environments, including additional courses and seminars. Part of the program takes place in Panama.
section 2.11.9.9: Master of Science, Applied (M.Sc.A.) Plant Science (Non-Thesis) (45 credits)

This M.Sc. in Plant Science requires about 18 months or four to five terms for completion. Overall, the program consists of graduate-level courses, seminars, and a research project. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field.

section 2.11.9.10: Doctor of Philosophy (Ph.D.) Plant Science

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector.

section 2.11.9.11: Doctor of Philosophy (Ph.D.) Plant Science: Bioinformatics

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector. This Bioinformatics option has an added emphasis on bioinformatics, including additional courses and seminars. The goal of this option is to train students to become researchers in the interdisciplinary field of bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering.

section 2.11.9.12: Doctor of Philosophy (Ph.D.) Plant Science: Environment

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector. This Environment option has an added emphasis on environmental sciences, including additional courses and seminars. It is aimed at students who wish to take an interdisciplinary approach in their graduate research on environmental issues and who wish to benefit from interactions with students from a wide range of disciplines.

section 2.11.9.13: Doctor of Philosophy (Ph.D.) Plant Science: Neotropical Environment

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector. This option has an added emphasis on neotropical environments, including additional courses and seminars. Part of the program takes place in Panama.

section 2.11.9.14: Graduate Certificate (Gr. Cert.) Bioinformatics (15 credits)

The Graduate Certificate in Bioinformatics is a new cross-disciplinary program that teaches students the foundations of bioinformatics thinking, methodology, and applications through hands-on experience with computers and bioinformatics tools. The program introduces students to many areas of application such as medicine, agriculture, and chemistry. Required courses include basic UNIX skills, genomics data, common bioinformatics software, relational databases, and web resources. The Certificate is completed in one term (Winter term only) after which graduates may go on to pursue successful careers in the biomedical, biotechnology, and biosciences fields.

2.11.9.3 Plant Science Admission Requirements and Application Procedures

2.11.9.3.1 Admission Requirements

General

The minimum cumulative grade point average (CGPA) is 3.0/4.0 (second class–upper division) or a minimum GPA of 3.2/4.0 during the last two years of full-time university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

Ph.D.

Ph.D. candidates are required to have an M.Sc. degree in an area related to the chosen field of specialization for the Ph.D. program. Outstanding M.Sc. students may be permitted to transfer to the second year of the Ph.D. program following one year of study.

Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, but not as candidates for a degree. Only one Qualifying year is permitted. Successful completion of a qualifying program does not guarantee admission to a degree program.

Financial Aid
Financial aid is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student’s supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds.

2.11.9.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

2.11.9.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Acceptance to all programs depends on a staff member agreeing to serve as the student’s supervisor and the student obtaining financial support.
- The GRE – not required, but highly recommended.

2.11.9.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Plant Science and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.11.9.4 Plant Science Faculty

**Chair**

Martina V. Stromvik

**Emerita Professor**

Deborah J. Buszard; B.Sc.(Bath), Ph.D.(Lond.)

**Professors**

Pierre Dutilleul; B.Sc., Ph.D.(Univ. catholique de Louvain)

Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)

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.)

Jean-Benoit Charron; B.Sc.(Montr.), M.Sc., Ph.D.(UQAM)

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.)
### Associate Professors
Jaswinder Singh; B.Sc.(Agr.), M.Sc.(Punjab), Ph.D.(Syd.)
Martina V. Stromvik; B.A., M.Sc.(Stockholm), Ph.D.(Ill.)

### Assistant Professors
Valérie Gravel; B.Sc.(Agr.), M.Sc., Ph.D.(Laval)
Olivia Wilkins; B.Sc.(Manit.), Ph.D.(Tor.)

### Faculty Lecturers
Caroline Begg; B.Sc.(Agr.)(McG.), M.Sc.(Sask.), Ph.D.(McG.)
David Wees; B.Sc.(Agr.), M.Sc.(McG.)

### Adjunct Professors
Konstantinos Aliferis
Annick Bertrand

#### 2.11.9.5 Master of Science (M.Sc.) Plant Science (Thesis) (45 credits)

**Thesis Courses (39 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
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<tr>
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<tr>
<td>PLNT 665</td>
<td>12</td>
<td>M.Sc. Thesis 2</td>
</tr>
<tr>
<td>PLNT 666</td>
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<td>M.Sc. Thesis 3</td>
</tr>
</tbody>
</table>

**Required Invitational Seminar**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT 690</td>
<td>0</td>
<td>Research Horizons in Plant Science 1</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

Two graduate-level courses

Additional courses may be required at the discretion of the candidate's supervisory committee.

#### 2.11.9.6 Master of Science (M.Sc.) Plant Science (Thesis): Bioinformatics (48 credits)

**Thesis Courses (39 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>PLNT 664</td>
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<td>M.Sc. Thesis 1</td>
</tr>
<tr>
<td>PLNT 665</td>
<td>12</td>
<td>M.Sc. Thesis 2</td>
</tr>
<tr>
<td>PLNT 666</td>
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<td>M.Sc. Thesis 3</td>
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</tbody>
</table>

**Required Invitational Seminar**

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT 690</td>
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<td>Research Horizons in Plant Science 1</td>
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</table>

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
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<td>Bioinformatics Seminar</td>
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<tr>
<td>COMP 616D2</td>
<td>1.5</td>
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<tr>
<td>PLNT 691</td>
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<td>Research Horizons in Plant Science 2</td>
</tr>
</tbody>
</table>
Complementary Courses (6 credits)
Chosen from the following:

- BINF 511 (3) Bioinformatics for Genomics
- BINF 621 (3) Bioinformatics: Molecular Biology
- BMDE 652 (3) Bioinformatics: Proteomics
- BTEC 555 (3) Structural Bioinformatics
- COMP 618 (3) Bioinformatics: Functional Genomics
- PHGY 603 (3) Systems Biology and Biophysics

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's advisory committee.

2.11.9.7 Master of Science (M.Sc.) Plant Science (Thesis): Environment (48 credits)

Thesis Courses (39 credits)

- PLNT 664 (12) M.Sc. Thesis 1
- PLNT 665 (12) M.Sc. Thesis 2
- PLNT 666 (15) M.Sc. Thesis 3

Required Invitational Seminar

- PLNT 690 (0) Research Horizons in Plant Science 1

Required Courses (6 credits)

- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3

Complementary Courses (3 credits)
Chosen from one of the following courses:

- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

Additional courses may be required at the discretion of the candidate's Supervisory Committee.

2.11.9.8 Master of Science (M.Sc.) Plant Science (Thesis): Neotropical Environment (48 credits)

Candidates must participate in the STRI seminar series when in residence in Panama, and in the MSE-Panama Symposium Presentation in Montreal.
Thesis Courses (39 credits)

PLNT 664 (12) M.Sc. Thesis 1
PLNT 665 (12) M.Sc. Thesis 2
PLNT 666 (15) M.Sc. Thesis 3

Required Invitational Seminar

PLNT 690 (0) Research Horizons in Plant Science 1

Required Courses (6 credits)

BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy

Elective Courses (3 credits)

3 credits at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Additional courses may be required at the discretion of the candidate's supervisory committee.

2.11.9.9 Master of Science, Applied (M.Sc.A.) Plant Science (Non-Thesis) (45 credits)

N.B. this program is under revision. Please contact Ms. Carolyn Bowes for information.

2.11.9.10 Doctor of Philosophy (Ph.D.) Plant Science

Students who have taken their M.Sc. degree at McGill University will be required to spend one term in study at another research institution.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

PLNT 690 (0) Research Horizons in Plant Science 1

Required Courses

* Must be taken within one year of registering

PLNT 701 (0) Doctoral Comprehensive Examination

Complementary Courses

Any courses at the 500 or 600 level deemed necessary for the chosen area of specialization.

2.11.9.11 Doctor of Philosophy (Ph.D.) Plant Science: Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.
### Required Invitational Seminar

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT 690</td>
<td>(0)</td>
<td>Research Horizons in Plant Science 1</td>
</tr>
</tbody>
</table>

### Required Courses (3 credits)

* Must be taken within one year of registering.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>PLNT 701*</td>
<td>(0)</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

Two courses to be chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 511</td>
<td>(3)</td>
<td>Bioinformatics for Genomics</td>
</tr>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's advisory committee.

### 2.11.9.12 Doctor of Philosophy (Ph.D.) Plant Science: Environment

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Invitational Seminar

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT 690</td>
<td>(0)</td>
<td>Research Horizons in Plant Science 1</td>
</tr>
</tbody>
</table>

### Required Courses (6 credits)

* Must be taken within the first year of registering

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>(1)</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>(1)</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>(1)</td>
<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>PLNT 701*</td>
<td>(0)</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

### Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

### Complementary Courses (3 credits)

One course chosen from the following:
ENVR 519 (3) Global Environmental Politics
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

2.11.9.13 Doctor of Philosophy (Ph.D.) Plant Science: Neotropical Environment

Students who have taken their M.Sc. degree at McGill University will be required to spend one term in study at another research institution.

The required thesis for this Ph.D. degree must display original scholarship expressed in proper literate style and must be a distinct contribution to knowledge.

Candidates must participate in the STRI seminar series when in residence in Panama, and in the MSE-Panama Symposium Presentation in Montreal.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Invitational Seminar**

PLNT 690 (0) Research Horizons in Plant Science

**Required Courses (6 credits)**

* Must be taken within one year of registering.

BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy
PLNT 701* (0) Doctoral Comprehensive Examination

**Elective Courses (3 credits)**

3 credits at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

2.11.9.14 Graduate Certificate (Gr. Cert.) Bioinformatics (15 credits)

**Required Courses (9 credits)**

BINF 511 (3) Bioinformatics for Genomics
BINF 660 (3) Advances in Bioinformatics
BTEC 555 (3) Structural Bioinformatics

**Complementary Courses (6 credits)**

6 credits from the following:

ANSC 565 (3) Applied Information Systems
BMDE 652 (3) Bioinformatics: Proteomics
COMP 616D1 (1.5) Bioinformatics Seminar
To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

3.2 Graduate and Postdoctoral Studies

3.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

3.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.
3.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

3.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

3.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

3.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

3.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

3.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

3.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Postdoctoral Research section of this publication contains important details required by postdoctoral scholars during their studies at McGill and should be periodically consulted, along with other sections and related publications.
3.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

3.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.
   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellowships/requirements). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.
   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).
   v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges
   i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.
   ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.
   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.
   iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.
   v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.
   vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.
vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

- to verify the Postdoc’s eligibility period for registration;
- to provide Postdocs with departmental policy and procedures that pertain to them;
- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
- to include Postdocs in departmental career and placement opportunities;
- to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

- to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
- to provide research guidance;
- to meet regularly with their Postdocs;
- to provide feedback on research submitted by the Postdocs;
- to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
- to provide mentorship for career development;
- to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:

- to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
- to submit a complete file for registration to Enrolment Services;
- to sign and adhere to their Letter of Agreement for Postdoctoral Education;
- to communicate regularly with their supervisor;
- to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

- to register Postdocs;
- to provide an appeal mechanism in cases of conflict;
- to provide documented policies and procedures to Postdocs;
- to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

3.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

3.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).
Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

### 3.8.5 Postdoctoral Research Trainees

**Eligibility**

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

**Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

**Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

**Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage.

Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

### 3.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work
3.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

3.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

3.11.1 Anthropology

3.11.1.1 Location

Department of Anthropology  
Stephen Leacock Building  
855 Sherbrooke Street West, Room 712  
Montreal QC H3A 2T7  
Canada  
Telephone: 514-398-4300  
Fax: 514-398-7476  
Email: gradprogram.anthropology@mcgill.ca  
Website: www.mcgill.ca/anthropology

3.11.1.2 About Anthropology

Our Department places high priority on research and on maintaining a distinguished graduate program. Each year, we admit only a small number of very highly qualified applicants for studies leading to the M.A. and Ph.D. degrees in Anthropology. Thus, our students benefit from close supervision by their committees and from high-quality peer exchange. By maintaining a high staff-student ratio, we are able to offer our graduate students an unusual degree of flexibility and personalized attention in designing their programs according to their specific interests. There are no comprehensive examinations, and the program is particularly congenial to students who are self-directed.

section 3.11.1.5: Master of Arts (M.A.) Anthropology (Thesis) (48 credits)

The purpose of the M.A. program is to provide advanced-level training in socio-cultural anthropology and archaeology to prepare students for research at the Ph.D. level.

section 3.11.1.6: Master of Arts (M.A.) Anthropology (Thesis): Development Studies (48 credits)

The Development Studies Option (DSO) is a cross-disciplinary M.A. program that is unique in Canada, if not the world, because it is designed to provide students with a strong practical and theoretical foundation for engaging in genuinely cross-disciplinary research. The option is offered within existing M.A. and Ph.D. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. or Ph.D. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. or Ph.D. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.
section 3.11.1.7: Master of Arts (M.A.) Anthropology (Thesis): Environment (48 credits)

The Environment option is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interaction with students from a wide range of different disciplines. Through research, seminars, and two courses, this option adds an interdisciplinary layer that will challenge students to defend their research and think in a broader context. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment (MSE), in partnership with participating academic units.

section 3.11.1.8: Master of Arts (M.A.) Anthropology (Thesis): Gender and Women's Studies (48 credits)

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet degree requirements in Anthropology (and other participating departments and faculties), who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

section 3.11.1.9: Master of Arts (M.A.) Medical Anthropology (Thesis) (48 credits)

The M.A. program in Medical Anthropology is given jointly by the Department of Anthropology and the Department of Social Studies of Medicine (SSOM). The program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences.

section 3.11.1.10: Doctor of Philosophy (Ph.D.) Anthropology

The purpose of the Ph.D. program is to enable students to make original contributions to research in socio-cultural anthropology, archaeology, and medical anthropology in the form of a doctoral thesis. The program offers fieldwork-based doctoral training for students wishing to concentrate on different geographic areas (including Africa, Latin America, Europe, North America, and Asia).

section 3.11.1.11: Doctor of Philosophy (Ph.D.) Anthropology: Neotropical Environment

The Ph.D. program in Neotropical Environment (NEO) is a specialized, interdisciplinary program made possible by collaborating institutions in Canada, Panama, and the United States. Students will complete their research in Latin America, and NEO's core and complementary courses will be taught in Panama. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the neotropics and Latin American countries. Students work under the supervision of researchers from McGill and/or the Smithsonian Tropical Research Institute (STRI). This is a research-based option for Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University.

3.11.1.3 Anthropology Admission Requirements and Application Procedures

3.11.1.3.1 Admission Requirements

Our Department places high priority on research and on maintaining a distinguished graduate program. Each year, we admit only a small number of very highly qualified applicants for studies leading to the M.A. and Ph.D. degrees in Anthropology.

For graduate applicants whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), a minimum TOEFL score of 100 on the Internet-based test (iBT), with each component score not less than 20, is required.

Further application information is available on the Department website at www.mcgill.ca/anthropology/graduate/admissions.

Master's

Admission to the M.A. program is open competitively to students holding an Honours or Major B.A. in Anthropology. Outstanding candidates with B.A. degrees in other disciplines but with substantial background related to anthropology are sometimes admitted on the condition that they complete a specified number of additional courses in Anthropology.

The applicants admitted usually have undergraduate grade point averages (GPA) of 3.5 or higher on a 4.0-point scale.

Ph.D.

Admission to the Ph.D. program is open competitively to students with a master's degree in Anthropology. In very special circumstances, candidates with a master’s degree in related disciplines may be admitted.

3.11.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

311.32.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:
- **GRE** results – for international applicants only
- **TOEFL** – for non-anglophone and non-francophone applicants
- Writing Sample – a recent sample of the applicant's written work, on any topic (not necessarily within the desired field of graduate study), not necessarily previously submitted for evaluation or publication in English or French, and no more than 15 pages in length
- Personal Statement – an essay in which the applicant describes reasons for applying to graduate studies and indicates qualifications, qualities, or circumstances the applicant feels to be significant. Applicants usually provide information about educational and professional goals, and discuss their interest in the desired field of study
- Curriculum Vitae

### 3.11.1.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Anthropology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

*Note:* The Department Admissions Committee announces its selections by mid-March and the end of April.

### 3.11.1.4 Anthropology Faculty

**Chair**

Setrag Manoukian

**Professors**

Colin A. Chapman; B.Sc., M.A., Ph.D.(Alta.) (*joint appt. with McGill School of Environment*) (*Canada Research Chair*),

John Galaty; B.A.(Trin. Coll., Hartford), M.A., Ph.D.(Chic.)

Ronald W. Niezen; B.A.(Br. Col.), M.Phil., Ph.D.(Camb.) (*Canada Research Chair*) (*Katharine A. Pearson Chair in Civil Society and Public Policy* (*joint appt. with Faculty of Law*),

Allan Young; B.A.(Penn.), M.A.(Wash.), Ph.D.(Penn.) (*joint appt. with Social Studies of Medicine*),

**Associate Professors**

Gwen Bennett; B.A.(N'western), M.A., Ph.D.(Calif.-LA) (*joint appt. with East Asian Studies*),

Nicole Couture; B.A.(Trent), M.A., Ph.D.(Chic.)

Sandra T. Hyde; B.A.(Calif.-Santa Cruz), M.P.H.(Hawaii), Ph.D.(Calif., Berk.)

Eduardo O. Kohn; B.A.(Oberlin), M.A., Ph.D.(Wisc.-Madison),

Setrag Manoukian; B.A.(U. di Venezia), M.A., Ph.D.(Mich.) (*joint appt. with Institute of Islamic Studies*),

Kristin Norget; B.A.(Vic., BC), M.Phil., D.Phil.(Camb.),

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.),

Lisa Stevenson; B.A.(N. Carolina, Chapel Hill), Ph.D.(Calif., Berk.) (*William Dawson Scholar*),

Ismael Vaccaro; B.A.(Barcelona), M.A.(EHESS Paris), M.A., Ph.D.(Wash.) (*joint appt. with McGill School of Environment*)
### Assistant Professors

Diana K Allan; B.A.(Camb.), M.A., Ph.D.(Harv.) \(\textit{(joint appt. with Institute for the Study of International Development)}\)

Peter Johansen; B.A.(Br. Col.), M.A., Ph.D.(Chic.)

Katherine Lemon; B.A.(Stan.), M.A., Ph.D.(Calif., Berk.)

Lisa Overholtzer; B.A.(Calif., Berk.), M.A., Ph.D.(N'western) \(\textit{(William Dawson Scholar)}\)

### Assistant Professor (Special Category)

Gretchen Bakke; B.A.(Evergreen St.), M.A.(Ind.), Ph.D.(Chic.)

### Associate Members

Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)

Laurence J. Kirmayer; B.Sc., M.D.,C.M., Dip.Psych.(McG.)

Tobias Rees; M.A.(Tübingen), Dip.Neuropharmacology(Instit. Pasteur), Ph.D.(Calif., Berk.)

Samuel Veissière; B.Sc.(Dublin), M.A., Ph.D.(McG.)

### Adjunct Members

André Costopoulos; B.A.(McG.), M.Sc.(Montr.), Ph.D.(Oulu)

Arthur Dyke; B.Sc.(Nfld.), M.A., Ph.D.(Colo.)

Nadia Ferrara; B.A.(C’dia), M.A.(Vermont Coll.), M.Sc.(McG.), Ph.D.(Montr.)

---

#### 3.11.1.5 Master of Arts (M.A.) Anthropology (Thesis) (48 credits)

The student's program of work, which is based on his/her research interests, is developed in consultation with the student's supervisor and the two other members of his or her advisory committee.

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 699</td>
<td>24</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 694</td>
<td>6</td>
<td>M.A. Thesis Tutorial 1</td>
</tr>
<tr>
<td>ANTH 695</td>
<td>6</td>
<td>M.A. Thesis Tutorial 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (12 credits)**

12 credits of courses to be determined by the student's area of study.

#### 3.11.1.6 Master of Arts (M.A.) Anthropology (Thesis): Development Studies (48 credits)

The Development Studies Option is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology.

**Thesis Courses (36 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 694</td>
<td>6</td>
<td>M.A. Thesis Tutorial 1</td>
</tr>
<tr>
<td>ANTH 695</td>
<td>6</td>
<td>M.A. Thesis Tutorial 2</td>
</tr>
<tr>
<td>ANTH 696</td>
<td>24</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>

**Required Course (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTD 657</td>
<td>3</td>
<td>Development Studies Seminar</td>
</tr>
</tbody>
</table>
Complementary Courses
9 credits of courses at the 500, 600, or 700 level to be determined by the student's area of study.

3.11.1.7 Master of Arts (M.A.) Anthropology (Thesis): Environment (48 credits)

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 694</td>
<td>6</td>
<td>M.A. Thesis Tutorial 1</td>
</tr>
<tr>
<td>ANTH 699</td>
<td>24</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

3 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

9 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 513</td>
<td>3</td>
<td>The Poetry of Anthropology</td>
</tr>
<tr>
<td>ANTH 551</td>
<td>3</td>
<td>Advanced Topics: Archaeological Research</td>
</tr>
<tr>
<td>ANTH 555</td>
<td>3</td>
<td>Advanced Topics in Ethnology</td>
</tr>
<tr>
<td>ANTH 602</td>
<td>3</td>
<td>Theory 1</td>
</tr>
<tr>
<td>ANTH 603</td>
<td>3</td>
<td>Theory 2</td>
</tr>
<tr>
<td>ANTH 607D1</td>
<td>3</td>
<td>Proseminar in Archaeology</td>
</tr>
<tr>
<td>ANTH 607D2</td>
<td>3</td>
<td>Proseminar in Archaeology</td>
</tr>
<tr>
<td>ANTH 609D1</td>
<td>3</td>
<td>Proseminar in Anthropology</td>
</tr>
<tr>
<td>ANTH 609D2</td>
<td>3</td>
<td>Proseminar in Anthropology</td>
</tr>
<tr>
<td>ANTH 610</td>
<td>3</td>
<td>Social Organization</td>
</tr>
<tr>
<td>ANTH 611</td>
<td>3</td>
<td>Research Design</td>
</tr>
<tr>
<td>ANTH 614</td>
<td>3</td>
<td>Economic Anthropology 1</td>
</tr>
<tr>
<td>ANTH 615</td>
<td>3</td>
<td>Seminar in Medical Anthropology</td>
</tr>
<tr>
<td>ANTH 616</td>
<td>3</td>
<td>Political Anthropology 1</td>
</tr>
<tr>
<td>ANTH 631</td>
<td>3</td>
<td>Symbolic Anthropology 1</td>
</tr>
<tr>
<td>ANTH 634</td>
<td>3</td>
<td>Anthropology of Development 1</td>
</tr>
<tr>
<td>ANTH 635</td>
<td>3</td>
<td>Anthropology of Development 2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Name</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>ANTH 640</td>
<td>(3)</td>
<td>Psychological Anthropology 1</td>
</tr>
<tr>
<td>ANTH 648</td>
<td>(3)</td>
<td>Structural Anthropology</td>
</tr>
<tr>
<td>ANTH 660</td>
<td>(3)</td>
<td>Research Methods</td>
</tr>
<tr>
<td>ANTH 670</td>
<td>(3)</td>
<td>Archaeological Theory 1</td>
</tr>
<tr>
<td>ANTH 671</td>
<td>(3)</td>
<td>Archaeological Theory 2</td>
</tr>
<tr>
<td>ANTH 673</td>
<td>(3)</td>
<td>Archaeological Field Methods</td>
</tr>
<tr>
<td>ANTH 680</td>
<td>(3)</td>
<td>Tutorial Reading 1</td>
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<tr>
<td>ANTH 681</td>
<td>(3)</td>
<td>Tutorial Reading 2</td>
</tr>
<tr>
<td>ANTH 682</td>
<td>(3)</td>
<td>Tutorial Reading 3</td>
</tr>
<tr>
<td>ANTH 684</td>
<td>(3)</td>
<td>Tutorial Reading 5</td>
</tr>
<tr>
<td>ANTH 702</td>
<td>(3)</td>
<td>PhD Proposal Defence</td>
</tr>
<tr>
<td>ANTH 760</td>
<td>(3)</td>
<td>Advanced Anthropological Methods</td>
</tr>
<tr>
<td>ANTH 770</td>
<td>(3)</td>
<td>Advanced Archaeological Theory</td>
</tr>
<tr>
<td>ANTH 780</td>
<td>(3)</td>
<td>Reading and Research 1</td>
</tr>
<tr>
<td>ANTH 781</td>
<td>(3)</td>
<td>Reading and Research 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.</td>
</tr>
</tbody>
</table>

### 3.11.1.8 Master of Arts (M.A.) Anthropology (Thesis): Gender and Women's Studies (48 credits)

This is an interdisciplinary program for students who meet the degree requirements in Anthropology, who wish to focus on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

**Thesis Courses (36 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 694</td>
<td>(6)</td>
<td>M.A. Thesis Tutorial 1</td>
</tr>
<tr>
<td>ANTH 695</td>
<td>(6)</td>
<td>M.A. Thesis Tutorial 2</td>
</tr>
<tr>
<td>ANTH 699</td>
<td>(24)</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>

**Required Course (3 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 601</td>
<td>(3)</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

6 credits of coursework in Anthropology at the 600 level.

3 credits of coursework at the M.A. level relating to gender/women's studies, which may be taken outside the Department

OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 615</td>
<td>(3)</td>
<td>Seminar in Medical Anthropology</td>
</tr>
</tbody>
</table>

### 3.11.1.9 Master of Arts (M.A.) Medical Anthropology (Thesis) (48 credits)

This program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences. The M.A. degree is awarded by the Anthropology Department and admission is granted by a joint admissions committee made up of representatives from Anthropology and the Department of Social Studies of Medicine.

**Thesis Courses (36 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 694</td>
<td>(6)</td>
<td>M.A. Thesis Tutorial 1</td>
</tr>
<tr>
<td>ANTH 695</td>
<td>(6)</td>
<td>M.A. Thesis Tutorial 2</td>
</tr>
<tr>
<td>ANTH 699</td>
<td>(24)</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>
Required Courses (6 credits)

- ANTH 615 (3) Seminar in Medical Anthropology
- HSSM 605 (3) Medical Anthropology

Complementary Courses (6 credits)

Two Anthropology courses at the 500, 600, or 700 level.

3.11.1.10 Doctor of Philosophy (Ph.D.) Anthropology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

- ANTH 602 (3) Theory 1
- ANTH 603 (3) Theory 2
- ANTH 609D1 (3) Proseminar in Anthropology
- ANTH 609D2 (3) Proseminar in Anthropology
- ANTH 701 (0) PhD Comprehensive Examination
- ANTH 702 (0) PhD Proposal Defence

Note: ANTH 602 and ANTH 603 should be taken in the first year of the program.

Complementary Courses (12 credits)

12 credits at the 500 and 600 level selected from courses within and/or outside the Department relevant to the student's research area in consultation with the student's supervisor and advisory committee. A maximum of 6 credits can be taken from the other program with approval of the supervisor and GPD.

Elective Courses (0-24 credits)

A maximum of 24 credits at the 500 level or higher can be taken inside or outside the Department (e.g., language training, methodological training, history or regional studies courses).

Language Requirement

A language examination, normally French, must be passed before an oral examination of the research proposal may be scheduled. Francophone students can satisfy the language requirement by demonstrating competency in English. The purpose of the language requirement is to ensure that the student has access to anthropological literature in at least two languages. Under special circumstances, a language other than English or French may be substituted, provided that there is sufficient anthropological literature on the student's research topic in that language.

The Ethics application and the language exam must be submitted before the proposal defence. They can be submitted at any point during PhD2 and PhD3 (before the date of the proposal defence is chosen).

3.11.1.11 Doctor of Philosophy (Ph.D.) Anthropology: Neotropical Environment

All new Neotropical Environment students will be encouraged to spend the month of August (prior to September admission) in Panama to take their first core course and familiarize themselves with the country.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)
If admitted to Ph.D. 2.

Note: To ensure that students understand prior research, they must define three subfields that intersect with the thesis topic. Students must register for the three Ph.D. tutorial listed below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 701</td>
<td>0</td>
<td>PhD Comprehensive Examination</td>
</tr>
<tr>
<td>ANTH 702</td>
<td>0</td>
<td>PhD Proposal Defence</td>
</tr>
<tr>
<td>ANTH 790</td>
<td>3</td>
<td>Ph.D. Tutorial 1</td>
</tr>
<tr>
<td>ANTH 791</td>
<td>3</td>
<td>Ph.D. Tutorial 2</td>
</tr>
<tr>
<td>ANTH 792</td>
<td>3</td>
<td>Ph.D. Tutorial 3</td>
</tr>
<tr>
<td>BIOL 640</td>
<td>3</td>
<td>Tropical Biology and Conservation</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
</tbody>
</table>

**Complementary Courses (3 credits)**

3 credits, at the 500, 600, or 700 level, deemed suitable by the student's supervisor, and pre-approved by the Neotropical Environment Director.

**Elective Courses (0-24 credits)**

A maximum of 24 credits at the 500 level or higher can be taken inside or outside the Department (e.g., language training, methodological training, history or regional studies courses).

**Language Requirement**

A language examination, normally French, must be passed before an oral examination of the research proposal may be scheduled. Francophone students can satisfy the language requirement by demonstrating competency in English. The purpose of the language requirement is to ensure that the student has access to anthropological literature in at least two languages. Under special circumstances, a language other than English or French may be substituted, provided that there is sufficient anthropological literature on the student's research topic in that language.

If admitted to Ph.D. 1.

In addition to the above requirements, 15 credits from courses at the 500 level or higher within and/or outside of the Department relevant to the student’s research area in consultation with the student’s supervisor and/or PhD committee.

### 3.11.2 Art History

#### 3.11.2.1 Location

Department of Art History and Communication Studies  
Arts Building, Room 270-A  
853 Sherbrooke Street West  
Montreal QC H3A 0G5  
Canada  
Telephone: 514-398-4933  
Fax: 514-398-8557  
Email: graduate.ahcs@mcgill.ca  
Website: [www.mcgill.ca/ahcs](http://www.mcgill.ca/ahcs)

#### 3.11.2.2 About Art History

The graduate program in Art History offers **M.A.** and **Ph.D.** degrees and is extremely active. The programs cover a wide range of areas of study delimited by the Department's fields of specialization, which include the following:

- Ancient;
- Medieval;
- Renaissance;
- the 17th, 18th, 19th, and 20th centuries;
- Contemporary;
- Canadian;
- East Asian;
• Architectural History;
• New Media;
• Print Culture;
• Gender and Sexuality;
• Race and Representation;
• Art historical methodologies, notably Feminism, Postcolonialism, and Queer Theory.

All of our faculty members are outstanding scholars in their respective fields and are involved in a wide range of major collaborative and individual research projects, many involving faculty from other universities, departments, and programs (such as Communication Studies, English and Literary Studies, Histories of Science and Medicine, Religious Studies, Classics, History, and Women’s Studies). These research projects allow us to offer relevant research training opportunities and assistantships to our graduate students.

McGill is situated in one of the most vibrant cities in North America, and Montreal offers myriad opportunities for graduate students to engage with local arts institutions, either officially, through internships and research fellowships, or unofficially, through volunteering. Local institutions range from large-scale public museums (such as the Musée d’art contemporain, the Musée des beaux arts, and the National Gallery of Canada in Ottawa) to smaller alternative galleries (such as feminist arts spaces La Centrale Galerie Powerhouse and Studio XX). There are also university-based venues such as the Redpath Museum on campus and the McCord Museum of Canadian History (which houses the McGill University Archives), and independent contemporary art galleries such as DHC and the Darling Foundry. The Canadian Centre for Architecture, with its archives and exhibitions, and the Bibliothèque et Archives nationales du Québec also offer grants and research opportunities for local graduate students. A close relationship with the other three major universities in Montreal (Concordia University, Université de Montréal, and Université du Québec à Montréal) affords students access to a broad network of additional courses, lectures, and colleagues across the city.

To obtain financial aid information, please consult the Graduate and Postdoctoral Studies website at www.mcgill.ca/gps/funding or email graduate.fellowships@mcgill.ca.

Further information on the Department of Art History and Communication Studies is available on our website.

Residency Requirements
For students entering the master's program in Art History, three semesters of full-time resident study at McGill University are required to complete the degree. “Residence” means that the student is enrolled on a full-time basis during this period (i.e., it does not refer to housing or accommodations). This residence period represents the minimum time required to obtain the degree; however, there is no guarantee that the required coursework can be completed within this time. Students may register for additional semesters to complete the program, and most students take four semesters (see University Regulations & Resources > Graduate > Regulations > Registration > section 1.2.11: Time Limitation). A typical timeline and further details regarding completing the M.A. may be found at www.mcgill.ca/dhc/graduate/ahgreadprograms/ma/timeline.

Coursework
Before classes begin, each student will meet with either the Graduate Program Director or with his/her supervisor to determine an appropriate selection of courses which, when considered in relation to the student's previous record, will provide a balanced breadth of coverage and specialization.

The candidate is required to pass, with a mark of 65% (B-) or better, all those courses that have been designated by the Department as forming a part of his/her program. These are the courses that have been entered on the registration form. A few extra courses may be taken, but it is then the responsibility of the student to see that these courses are clearly marked “not required” on the registration form.

section 3.11.2.5: Master of Arts (M.A.) Art History (Thesis) (45 credits)

Please see the Departmental website for more information about this program.

section 3.11.2.6: Master of Arts (M.A.) Art History (Thesis): Gender and Women's Studies (45 credits)

M.A. students who have selected the Graduate Option in Gender and Women's Studies complete a GWS coursework component as part of the total credits required for the M.A. degree. All course selection must first be approved by the supervisor/graduate program director.

section 3.11.2.7: Doctor of Philosophy (Ph.D.) Art History

Please see the Departmental website for more information about this program.

section 3.11.2.8: Doctor of Philosophy (Ph.D.) Art History: Gender and Women's Studies

Ph.D. students who have selected the Graduate Option in Gender and Women's Studies complete a GWS coursework component as part of the total credits required for the Ph.D. degree. All course selection must first be approved by the supervisor/graduate program director.

3.11.2.3 Art History Admission Requirements and Application Procedures
3.11.2.3.1 Admission Requirements

Entrance into either the M.A. or Ph.D. programs is limited to the best qualified applicants. A minimum CGPA of 3.3 or the equivalent, i.e., 75%, is highly recommended. The Department requires a research statement of at least 250 words outlining the candidate's particular research interest in Art History as
well as a sample of his/her written work such as a seminar paper or, in the case of Ph.D. applicants, all or part of the M.A. paper or thesis. For a complete list of materials required, see section 3.11.2.3.2: Application Procedures below.

For international applicants whose first language is not English, please see www.mcgill.ca/gradapplicants/international/apply/proficiency.

M.A. Program
To apply to the M.A. program, candidates are normally expected to have a B.A. degree in Art History or in another closely related field; candidates may come from other fields such as literary studies, comparative literature, ethnic studies, Canadian studies, architecture, urban planning, film studies, history, performance studies, or philosophy/aesthetics, but must have taken at least 10 courses relating to the history and theory of some aspect of the visual arts, preferably covering a wide range of historical time periods and geographical regions. In exceptional cases, applicants without a strong background in art history may be admitted but with additional requirements arranged in consultation with the Director of Graduate Studies to be completed before matriculation in the M.A. program.

Ph.D. Program
In order to apply to the Ph.D. program, candidates must hold an M.A. degree preferably in Art History or in a closely related field together with an appropriate number of art history and related courses such as are described for entrance into the M.A. program. All candidates for the Ph.D. program are strongly advised to contact a potential supervisor well in advance of submitting the application in order to establish a relationship. Applicants who have not vetted their research proposal (application statement) with a potential supervisor are unlikely to be admitted.

3.11.2.3.2 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

For any admissions problems, please contact Maureen Coote, the Graduate Administrative Coordinator:
Office: Arts W235
Telephone: 514-398-4933
Email: graduate.ahcs@mcgill.ca

3.11.2.3.2.1 Additional Requirements
The items and clarifications below are additional requirements set by this department:

- Writing Sample (in English or French)
- Research Proposal

Note: The section of the application marked “Statement of Purpose” is not strictly required unless the applicant has specific items to remark on his/her candidacy that are not addressed in the research proposal.

3.11.2.3.3 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Art History and Communication Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<thead>
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<th>Application Opening Dates</th>
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<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
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<td>Winter Term:</td>
<td>N/A</td>
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<td>Summer Term:</td>
<td>N/A</td>
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</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

3.11.2.4 Art History and Communication Studies Faculty
Chair
Mary Hunter
Directors

Roberta G. Lentz – Director, Graduate Programs in Art History and Communication Studies
Chriscinda Henry – Director, Undergraduate Programs in Art History
Will Straw – Director, Undergraduate Programs in Communication Studies

Emeritus and Retired Professors

David Crowley; B.A. (Johns Hop.), M.Sc. (Penn.), Ph.D. (McG.) (Retired)
Marc Raboy; B.Sc., M.A., Ph.D. (McG.) (Retired)
Gertrude Robinson (Emeritus)
George Szanto; B.A. (Dart.), Ph.D. (Harv.) (Emeritus)

Professors

Charmaine Nelson; B.F.A., M.A. (C’dia), Ph.D. (Manc.)
Christine Ross; M.A. (C’dia.), Ph.D. (Paris I)
Jonathan Sterne; B.A. (Minn.), M.A., Ph.D. (Ill.-Urbana-Champaign)
Will Straw; B.A. (Car.), M.A., Ph.D. (McG.)
Angela Vanhaelen; B.A. (W. Ont.), M.A., Ph.D. (Br. Col.)

Associate Professors

Darin Barney; B.A., M.A. (S. Fraser), Ph.D. (Tor.)
Jenny Burman; B.A. (C’dia), M.A., Ph.D. (York)
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.)
Jeehee Hong; B.A., M.A. (Yonsei), M.A., Ph.D. (Chic.)
Mary Hunter; B.A. (Qu.), M.A., Ph.D. (Lond.)
Matthew Hunter; B.A. (Reed), M.A., Ph.D. (Chic.)
Roberta G. Lentz; B.A., M.A. (S. Ill.), Ph.D. (Texas-Austin)
Carrie Rentschler; B.A. (Minn.), M.A., Ph.D. (Ill.-Urbana-Champaign)

Assistant Professor

Bobby Benedicto; B.A. (Ateneo de Manila), M.A. (York), Ph.D. (Melb.)

Associate Members

Yuriko Furuhata, Thomas Lamarre, Andrew Piper

Affiliate Member

Robert Graham

3.11.2.5 Master of Arts (M.A.) Art History (Thesis) (45 credits)

The M.A. in Art History with the thesis option requires the completion of 45 credits of coursework.
The program is designed to be completed in four semesters, but may be completed in three semesters. There is a time limit to complete the M.A. degree in three years (full-time) or five years (part-time).

Required Courses (27 credits)

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<tr>
<th>Course Code</th>
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<tr>
<td>ARTH 600</td>
<td>Advanced Professional Seminar</td>
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</table>
Complementary Courses (18 credits)

Chosen from the following:

- **ARTH 617** (3) Modern Art
- **ARTH 618** (3) Art History - 1400-1900 1
- **ARTH 630** (3) Directed Reading 1
- **ARTH 645** (3) Medieval Art and Archaeology
- **ARTH 646** (3) Topics: Chinese Visual Culture
- **ARTH 647** (3) Topics: Renaissance Art & Architecture 1
- **ARTH 648** (3) Topics: Renaissance Art & Architecture 2
- **ARTH 653** (3) Topics: Early Modern Visual Culture 1
- **ARTH 654** (3) Topics: Early Modern Visual Culture 2
- **ARTH 660** (3) Contemporary Art & Criticism 1
- **ARTH 661** (3) Contemporary Art & Criticism 2
- **ARTH 673** (3) Topics: 18th - Century Art & Architecture 1
- **ARTH 675** (3) Topics: 19th - Century Art & Architecture 1
- **ARTH 678** (3) Topics: 19th - Century Art & Architecture 2
- **ARTH 714** (3) Directed Reading 2
- **ARTH 715** (3) Research: Modern Architecture - 1750 to Present 1
- **ARTH 724** (3) Art Criticism 2
- **ARTH 725** (3) Methods in Art History 1
- **ARTH 730** (3) Current Problems in Art History 1
- **ARTH 731** (3) Current Problems in Art History 2

3.11.2.6 Master of Arts (M.A.) Art History (Thesis): Gender and Women's Studies (45 credits)

The M.A. in Art History; Thesis option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Art History and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The final thesis must be on a topic centrally relating to issues of gender and/or women's studies.


Required Courses (30 credits)

- **ARTH 600** (3) Advanced Professional Seminar
- **ARTH 698** (12) Thesis Research 1
- **ARTH 699** (12) Thesis Research 2
- **WMST 601** (3) Feminist Theories and Methods

Complementary Courses (15 credits)

15 credits at the 500 level or higher to be chosen in consultation with a supervisor.

3 credits of complementary coursework must be chosen from one of the courses below:

- **COMS 633** (3) Feminist Media Studies
- **WMST 602** (3) Feminist Research Symposium
Or a 3-credit, option-approved course at the 500, 600, or 700 level, taught outside WMST (e.g., an option-approved Art History course, or an option-approved course taught in another discipline).

3 credits of the 15 credits of complementary coursework may be taken at another university in Montreal.

### 3.11.2.7 Doctor of Philosophy (Ph.D.) Art History

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses (3 credits)

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ARTH 600</td>
<td>3</td>
<td>Advanced Professional Seminar</td>
</tr>
<tr>
<td>ARTH 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
</tbody>
</table>

#### Complementary Courses (12 credits)

Four courses chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARTH 714</td>
<td>3</td>
<td>Directed Reading 2</td>
</tr>
<tr>
<td>ARTH 715</td>
<td>3</td>
<td>Research: Modern Architecture - 1750 to Present 1</td>
</tr>
<tr>
<td>ARTH 719</td>
<td>3</td>
<td>Seminar in Urban Planning and Topography 3</td>
</tr>
<tr>
<td>ARTH 723</td>
<td>3</td>
<td>Art Criticism 1</td>
</tr>
<tr>
<td>ARTH 724</td>
<td>3</td>
<td>Art Criticism 2</td>
</tr>
<tr>
<td>ARTH 725</td>
<td>3</td>
<td>Methods in Art History 1</td>
</tr>
<tr>
<td>ARTH 730</td>
<td>3</td>
<td>Current Problems in Art History 1</td>
</tr>
<tr>
<td>ARTH 731</td>
<td>3</td>
<td>Current Problems in Art History 2</td>
</tr>
</tbody>
</table>

or from the 600-level complementary courses listed for the M.A.

Alternatively, up to 3 of the 12 credits may be from other disciplines, as approved by the Department.

#### Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

### 3.11.2.8 Doctor of Philosophy (Ph.D.) Art History: Gender and Women's Studies

Students should refer to the Departmental website for information about Ph.D. residency and timing.

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Art History who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ARTH 600</td>
<td>3</td>
<td>Advanced Professional Seminar</td>
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<tr>
<td>ARTH 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>
Complementary Courses (9 credits)

An additional 9 credits in Art History, of which 3 credits must be a graduate option-approved 500- or 600-level ARTH course.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

3.11.3 Classics

See section 3.11.10: History and Classical Studies.

3.11.4 Communication Studies

3.11.4.1 Location

Department of Art History and Communication Studies
Arts Building, Room 270-A
853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada
Telephone: 514-398-2850
Fax: 514-398-8557
Email: graduate.ahcs@mcgill.ca
Website: www.mcgill.ca/ahcs

3.11.4.2 About Communication Studies

The graduate program in Communication Studies offers M.A. and Ph.D. degrees. The program is concerned with the study of communication phenomena through interdisciplinary training that draws on a variety of fields including cultural studies; critical media and technology studies; public policy and governance; film; and sound studies. The program strives to offer a balance of humanities and social sciences approaches to the analysis of communication, and its orientation is primarily qualitative (rather than quantitative) in nature. The M.A. and Ph.D. degrees are academic in character, and do not include professional training in journalism, organizational communication, or media production. The Communication Studies program offers courses and directs project research in preparation for the M.A.(Thesis) and Ph.D. in Communication Studies. The graduate option in Gender and Women’s Studies is available as a program option, and students benefit from the resources and activity of Media@McGill, a hub of research and public outreach on critical issues in media, culture, and emerging technology.

McGill is situated in one of the most vibrant cities in North America, and Montreal offers myriad opportunities for graduate students to engage with local arts institutions, either officially, through internships and research fellowships, or unofficially, through volunteering. Local institutions range from large-scale public museums (such as the Musée d’art contemporain, the Musée des beaux-arts, and the National Gallery of Canada in Ottawa) to smaller alternative galleries (such as feminist arts spaces La Centrale Galerie Powerhouse and Studio XX). There are also university-based venues such as the Redpath Museum on campus and the McCord Museum of Canadian History (which houses the McGill University Archives), and independent contemporary art galleries such as DHC and the Darling Foundry. The Canadian Centre for Architecture, with its archives and exhibitions and the Bibliothèque et Archives nationales du Québec also offer grants and research opportunities for local graduate students. A close relationship with the other three major universities in Montreal (Concordia University, Université de Montréal, and Université du Québec à Montréal) affords students access to a broad network of additional courses, lectures, and colleagues across the city.

To obtain financial aid information, please consult the Graduate and Postdoctoral Studies website at www.mcgill.ca/gps/funding or email graduate.fellowships@mcgill.ca.

Further information on the Department of Art History and Communication Studies is available on our website.

Master’s and Ph.D. Degrees

Students enter our graduate programs from a variety of disciplinary backgrounds, though all have a history of documented academic excellence and aptitude for advanced scholarly research. Over the past 30 years, the Graduate Program in Communication Studies has trained many of Canada’s leading communications scholars. Graduates of the program may be found working in all levels of government, within the cultural industries, and in dozens of university Communication Studies departments around the world.

For the language requirement for M.A. and Ph.D. degrees, please see: www.mcgill.ca/ahcs/graduate/language-requirement.
section 3.11.4.5: Master of Arts (M.A.) Communication Studies (Thesis) (45 credits)

The M.A. in Communication Studies offers advanced training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy.

section 3.11.4.6: Master of Arts (M.A.) Communication Studies (Thesis): Gender and Women’s Studies (45 credits)

The graduate option in Gender and Women's Studies (GWS) provides graduate students obtaining degrees in a variety of participating departments and faculties with a cross-disciplinary specialization in feminist, women's, and gender studies. Students who pursue this option obtain a graduate degree in their own department as well as an “option/concentration” in GWS. Thus, the graduate option in GWS will appear on a student’s transcript along with the M.A.

The option was developed by the Women's Studies program in response to needs expressed by the Graduate Group for Feminist Scholarship (GGFS) and to the range of inquiries the Women's Studies program regularly receives from potential students interested in graduate-level work with a feminist focus at McGill University. There are no prerequisites to enter into the option. However, undergraduate or graduate courses in gender or women’s studies provide an ideal foundation for more in-depth study of, and research in, feminist scholarship. The thesis must be on a topic centrally related to gender and/or women's studies.

section 3.11.4.7: Doctor of Philosophy (Ph.D.) Communication Studies

The Ph.D. in Communication Studies offers in-depth training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy. Doctoral students pursue coursework, submit a comprehensive exam and thesis proposal, with the goal of writing a dissertation that makes an original contribution to knowledge in Communication Studies. The Ph.D. degree is academic in character, and does not include professional training in media production.

section 3.11.4.8: Doctor of Philosophy (Ph.D.) Communication Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies (GWS) provides graduate students obtaining degrees in a variety of participating departments and faculties with a cross-disciplinary specialization in feminist, women's, and gender studies. Students who pursue this option obtain a graduate degree in their own department as well as an “option/concentration” in GWS. Thus, the graduate option in Gender and Women's Studies will appear on a student’s transcript along with the Ph.D.

The option was developed by the Women's Studies program in response to needs expressed by the Graduate Group for Feminist Scholarship (GGFS) and to the range of inquiries the Women's Studies program regularly receives from potential students interested in graduate-level work with a feminist focus at McGill University. There are no prerequisites to enter into the option. However, undergraduate or graduate courses in gender or women’s studies provide an ideal foundation for more in-depth study of, and research in, feminist scholarship.

3.11.4.3 Communication Studies Admission Requirements and Application Procedures

3.11.4.3.1 Admission Requirements

M.A.

An honours bachelor's degree or equivalent is preferred for applicants to the M.A. program, with a minimum CGPA of 3.3 out of 4.0, or equivalent, i.e., B+ (75%). In any case, the transcript must show breadth or depth in related areas of study.

Ph.D.

Applicants to the Ph.D. program are expected to have completed the equivalent of an M.A. degree. Admission will be based on academic achievement and evidence of talent and strong motivation in Communication Studies.

3.11.4.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Applications will be considered until the deadline of January 15.

Inquiries regarding the program should be addressed to the Graduate Administrative Coordinator, Department of Art History and Communication Studies.

3.11.4.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Proposal – at least 500 words
- Written Work – two examples of academic writing
3.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Art History and Communication Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<td>Current McGill Students (any</td>
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</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

3.11.4.4 Communication Studies Faculty

See section 3.11.2.4: Art History and Communication Studies Faculty.

3.11.4.5 Master of Arts (M.A.) Communication Studies (Thesis) (45 credits)

The M.A. in Communication Studies offers advanced training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy. M.A. students pursue coursework and write an M.A. thesis that reflects sustained analysis of a topic in Communication Studies. The M.A. degree is academic in character, and does not include professional training in media production.

**Thesis Courses (24 credits)**

- COMS 692 (6) M.A. Thesis Preparation 1
- COMS 693 (6) M.A. Thesis Preparation 2
- COMS 694 (6) M.A. Thesis Preparation 3
- COMS 695 (6) M.A. Thesis Preparation 4

**Required Course (3 credits)**

- COMS 616 (3) Staff-Student Colloquium 1

**Complementary Courses (18 credits)**

18 credits of 500-level or higher COMS courses; two courses outside COMS require approval of the Graduate Program Director.

3.11.4.6 Master of Arts (M.A.) Communication Studies (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

**Thesis Courses (24 credits)**

- COMS 692 (6) M.A. Thesis Preparation 1
- COMS 693 (6) M.A. Thesis Preparation 2
- COMS 694 (6) M.A. Thesis Preparation 3
- COMS 695 (6) M.A. Thesis Preparation 4
Required Courses (6 credits)

- COMS 616 (3) Staff-Student Colloquium 1
- WMST 601 (3) Feminist Theories and Methods

Complementary Courses (15 credits)

All complementary courses must be at the 500 level or higher in Communication Studies.

3 credits of complementary coursework must be in Gender and Women's Studies

- WMST 602 (3) Feminist Research Symposium

OR, one 3-credit course on gender/women's issues at the 500, 600, or 700 level (may be in the Department or outside).

3.11.4.7 Doctor of Philosophy (Ph.D.) Communication Studies

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

- COMS 616 (3) Staff-Student Colloquium 1
- COMS 702 (0) Comprehensive Examination
- COMS 703 (0) Dissertation Proposal

Complementary Courses (15 credits)

15 credits of 500-, 600-, or 700-level COMS courses; one course outside COMS requires approval of the Graduate Program Director.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

3.11.4.8 Doctor of Philosophy (Ph.D.) Communication Studies: Gender and Women's Studies

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

- COMS 616 (3) Staff-Student Colloquium 1
- COMS 702 (0) Comprehensive Examination
Complementary Courses (9 credits)

9 credits of 500-, 600-, or 700-level courses, which must include one 3-credit course on gender/women's issues at the graduate level (may be in the Department or outside).

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

3.11.5 East Asian Studies

3.11.5.1 Location

Department of East Asian Studies
688 Sherbrooke Street West, Room 425
Montreal QC H3A 3R1
Canada
Telephone: 514-398-3650
Email: asian.studies@mcgill.ca
Website: www.mcgill.ca/eas

3.11.5.2 About East Asian Studies

The Department of East Asian Studies is committed to offering a rigorous, innovative, and interdisciplinary environment in which students learn a variety of critical and historical approaches to the study of East Asian arts, cultures, histories, languages, literatures, media, and social practices. The research expertise of our faculty members spans a wide range of disciplinary backgrounds including:

- anthropology;
- archaeology;
- art history;
- ethnic studies;
- film and media studies;
- gender and women’s studies;
- history and literature;
- religion both institutional and popular.

The unique curriculum of East Asian Studies allows students to gain an intellectually rich, historically informed, theoretically sophisticated, and materially grounded understanding of China, Japan, and Korea as spaces of dynamic formation and transformation, all the while developing proficiency in languages of the region. Graduate students may choose from a wide range of courses offered both by the Department and other departments in the Faculty of Arts, and in other faculties that encourage the development of strong intellectual connections with multiple disciplines.

The Centre for East Asian Research (CEAR), affiliated with the Department of East Asian Studies, actively supports and encourages community outreach. It offers a wide range of activities throughout the year such as lectures, presentations, seminars, workshops, speech contests, cultural activities, and additions of new associate members.

section 3.11.5.5: Master of Arts (M.A.) East Asian Studies (Thesis) (Ad Hoc) (45 credits)

The M.A. program requires a thesis that engages with current theoretical and methodological issues and uses both primary and secondary sources in East Asian languages. Entering students are expected to have a background and/or degree in disciplines relating to East Asia, and have knowledge of an East Asian language. Graduates of our program are pursuing careers in academia, publishing, government service, the financial industry, media and communications, and other fields.

section 3.11.5.6: Doctor of Philosophy (Ph.D.) East Asian Studies (Ad Hoc)

The Ph.D. program requires a thesis that engages with current theoretical and methodological issues and uses both primary and secondary sources in East Asian languages. Entering students are expected to have a background and/or degree in disciplines relating to East Asia and have knowledge of an East
3.11.5.3 East Asian Studies Admission Requirements and Application Procedures

3.11.5.3.1 Admission Requirements

General

A minimum standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of 4.0, or a GPA of 3.2/4.0 for the last two full-time academic years. Applicants who have not studied at a Canadian institution must submit official copies of their Graduate Record Examination (GRE) at the time of application. These scores must come directly from the Educational Testing Service; hard copies and photocopies are not accepted. A minimum Test of English as a Foreign Language (TOEFL) score of 86 (Internet-based test (iBT); with no less than 20 in each of the four component scores) is required of all applicants whose mother tongue is not English and who have not completed an undergraduate or graduate degree at a foreign institution where English is the language of instruction, or at a recognized Canadian institution (anglophone or francophone). Alternatively, students proving their English proficiency may use the International English Language Testing System (IELTS) examination, for which the minimum score is an overall band score of 6.5 (academic module). For the TOEFL and GRE, you must indicate the McGill University institution code: 0935.

M.A.

Applicants must hold, or expect to hold by September of the year of entry, a bachelor’s degree in East Asian Studies or a related field. Applicants are expected to have proficiency in the East Asian language(s) most useful for the proposed graduate work (preferably three years or more of coursework, or equivalent).

Ph.D.

Applicants must hold, or expect to hold by September of the year of entry, a master’s degree in East Asian Studies or a related field.

3.11.5.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.5.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae;
- Research Proposal – approximately 500 words for master’s and five pages for Ph.D. applicants. A description of the proposed research project, with brief bibliography, should be included in the Research Proposal;
- Writing Sample;
- GRE – required for applicants who have not studied at a Canadian university.

3.11.5.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of East Asian Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<thead>
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<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.5.4 East Asian Studies Faculty

Chair

R. Philip Buckley; Ph.D.(Louvain)
**Director, Undergraduate Studies**
Michelle Cho

**Director, Graduate Program**
Yuriko Furuhata

**Emeritus Professor**
Kenneth Dean; B.A.(Brown), M.A., Ph.D.(Stan.)

**Professors**
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.(Aix-Marseille II)
Robin D.S. Yates; B.A., M.A.(Oxf.), M.A.(Calif.), Ph.D.(Harv.) (joint appt. with History)

**Associate Professors**
Gwen Bennett; B.A.(N'Western), M.A., Ph.D.(Calif.-LA)
Yuriko Furuhata; B.A.(Int'l. Christian), M.A.(N. Mexico), Ph.D.(Brown)
Jeehee Hong; B.A., M.A.(Yonsei), M.A., Ph.D.(Chic.)
Adrienne Hurley; B.A.(Col.), M.A.(Mich.), Ph.D.(Calif.) (on leave)

**Assistant Professors**
Michelle Cho; B.A.(N'western), M.A., Ph.D.(Calif., Irvine)
Gal Gvili; B.A., M.A.(Hebrew), Ph.D.(Col.)
Xiao Liu; B.A.(Beijing, Second Foreign), M.A.(Tsinghua), Ph.D.(Calif., Berk.)
Gavin Walker; B.A., M.A.(Penn.), Ph.D.(Cornell) (joint appt. with History)

**Faculty Lecturers**
Jennie Chang, Tomoko Ikeda, Myung Hee Kim, Yasuko Senoo, Miwako Uesaka, Bill Wang

**Associate Members**
Lara Braitstein (Religious Studies)
Christopher Green (Economics)
Sandra Teresa Hyde (Anthropology)
Erik Kuhonta (Political Science)
John Kurien (Economics)
Catherine La (Political Science)
Lorenz Lüthi (History)
Junko Shimoyama (Linguistics)
Sarah Turner (Geography)
Juan Wang (Political Science)

**3.11.5.5 Master of Arts (M.A.) East Asian Studies (Thesis) (Ad Hoc) (45 credits)**
The Department only offers a thesis option. The M.A. program with thesis includes:
a) four 3-credit graduate courses (12 credits);
b) one graduate 3-credit seminar in theory/methodology (3 credits);
c) one graduate 6-credit seminar or two graduate 3-credit seminars (6 credits); and
d) thesis (24 credits).

Language Courses:
1. A maximum of 6 credits of language courses at the 500 level or in a classical Asian language may be counted toward course requirements.
2. Students must have fourth-level language equivalency by the completion of their M.A. program.

### 3.11.5.6 Doctor of Philosophy (Ph.D.) East Asian Studies (Ad Hoc)

The Graduate Studies Committee will assign an advisory committee to advise the student and specify the student's program of study.

Exceptional students with appropriate background at the undergraduate level may be admitted directly into the Ph.D. program.

Students must complete at least 24 course credits, with a grade point average of 3.5 or better; this coursework must be chosen to identify three distinct fields for the Comprehensive Evaluation. Students may take up to two 3-credit courses or one 6-credit course in another department with the approval of the Graduate Program Director.

There are four requirements for obtaining the doctoral degree:

1. Coursework – 24 credits at the 600 or 700 level with a grade point average of 3.5 or better. On the basis of this coursework, the student should identify three distinct fields for the Comprehensive Evaluation. Students may take up to 6 credits in another department with the approval of the Graduate Program Director.

2. Language – Candidates will be required to demonstrate reading knowledge of a second Asian language, which may include either modern or literary (classical) language, in addition to the primary Asian language of their research. Candidates will also be expected to demonstrate reading knowledge of both French and English.

3. Ph.D. Comprehensive Evaluation – The student is required to pass the Comprehensive Evaluation within one year after completing coursework. Exceptions have to be approved by the Graduate Program Director.

4. Doctoral Dissertation – A thesis proposal (15-25 pages) should be submitted within six months after successful completion of the Ph.D. Comprehensive Evaluation, after consultation with the Graduate Program Director and the thesis supervisor. Before submission of the dissertation, candidates are expected to spend time in Asia researching their project.

### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### 3.11.6 Economics

#### 3.11.6.1 Location

Department of Economics  
Stephen Leacock Building, Room 443  
855 Sherbrooke Street West  
Montreal QC H3A 2T7  
Canada  
Telephone: 514-398-3030  
Email: graduate.economics@mcgill.ca  
Website: www.mcgill.ca/economics

#### 3.11.6.2 About Economics

The Department of Economics offers M.A. and Ph.D. programs that attract students from all over the world. Faculty members conduct research in numerous areas of economics, with particularly strong representation in the fields of econometrics, empirical microeconomics including development, and natural resources. The Department counts among its members two holders of a Canada Research Chair, two James McGill Professors, one William Dawson Scholar, an Officer of the Order of Canada (who is also a Bank of Canada Research Fellow), two Fellows of the Royal Society of Canada, and one Endowed Chair.

Lectures and examinations in the graduate program (M.A. and Ph.D.) in Economics are given in the core areas of:

- macroeconomics;
- microeconomics;
- econometrics;

and several fields including:

- economic development;
- financial econometrics;
- industrial organization;
• health economics;
• international economics;
• labour economics;
• monetary economics;
• mathematical economics; and
• advanced theory.

section 3.11.6.5: Master of Arts (M.A.) Economics (Thesis) (48 credits)

This program is currently not offered.

The Master of Arts program in Economics (Thesis) serves students preparing for a Ph.D. in Economics. For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option.

section 3.11.6.6: Master of Arts (M.A.) Economics (Non-Thesis) (45 credits)

The Master of Arts program in Economics (Non-Thesis) serves students seeking to solidify and deepen their understanding of economics prior to a career in government or the private non-academic sector, and those preparing for a Ph.D. in Economics. For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option.

section 3.11.6.7: Master of Arts (M.A.) Economics (Non-Thesis): Development Studies (45 credits)

For those students interested in the interdisciplinary study of development, anchored in Economics, the Department offers the Development Studies Option (DSO). This program is offered as an option within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues.

section 3.11.6.8: Master of Arts (M.A.) Economics (Non-Thesis): Population Dynamics (45 credits)

The Population Dynamics Option (PDO) is open to students wishing to specialize in population dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and a course in microeconomic methods relevant for population studies. In addition, students will take one complementary course in Economics, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series.

section 3.11.6.9: Master of Arts (M.A.) Economics (Non-Thesis): Social Statistics (45 credits)

This program is currently not offered.

For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option. Students will normally complete the usual program course requirements, supplemented by Further statistical courses, chosen in consultation with the option adviser, and subject to approval by the home department. Students will complete a statistics-based M.A. research paper (Economics, Political Science, Sociology) or thesis (Geography) in conjunction with an interdisciplinary “capstone seminar.” Acceptance into the program is by application to the Social Statistics Option Committee and is contingent on acceptance into the M.A. program in one of the participating departments (Economics, Geography, Political Science, Sociology), which in turn requires meeting Graduate and Postdoctoral Studies admission requirements.

section 3.11.6.10: Doctor of Philosophy (Ph.D.) Economics

The Ph.D. program in Economics is designed to prepare students for research, whether in an academic or government setting, and teaching. The Department's faculty members conduct research in numerous areas of economics. The low student-faculty ratio ensures students receive individual attention to their own research, and are able to act as research assistants to the Faculty. The Department collaborates with the four other Economics departments in Montreal to extend the Ph.D.-level course offerings and to offer numerous external speakers and conferences.

Note: Changes may take place after this information has been published. Students are advised to contact the Department of Economics for supplementary information which may be important to their choice of program.
3.11.6.3 Economics Admission Requirements and Application Procedures

3.11.6.3.1 Admission Requirements

An Honours B.A. in Economics is the normal requirement, although students holding an ordinary B.A., whether in economics or another discipline, may also be eligible for admission. Students judged by the Admissions Committee to have deficiencies in their preparation in economics may be admitted to a Qualifying year in which they undertake advanced undergraduate work.

Students who have not previously passed a suitable course in statistics must take the undergraduate Honours Statistics course, ECON 257D1/ECON 257D2. Students are also expected to have completed or to complete three terms of introductory calculus and at least one term of linear algebra.

If your education has been interrupted or if you do not have an undergraduate or graduate degree in economics from a Canadian university, you must take the Graduate Record Examination (GRE; General Test) and arrange for your scores to be sent to us.

Note: The Graduate Management Admission Test (GMAT) cannot be substituted for the GRE. McGill University’s institutional code is 0935, and the Department of Economics’ code is 1801. For more information about the GRE, please visit their website.

3.11.6.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Information can be accessed on the Economics Department website at www.mcgill.ca/economics.

3.11.6.3.3 Additional Requirements

- GRE – mandatory if your education was interrupted or you do not have a degree in Economics from a Canadian university
- Personal Statement

3.11.6.3.4 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Economics Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.6.4 Economics 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)
Joseph Greenberg; B.A., M.A., Ph.D.(Hebrew)
Kari Polanyi Levitt; B.Sc.(LSE), M.A.(Tor.)
John C. Rowley; B.Sc., M.Sc., Ph.D.(LSE)

Professors

Hassan Benchekroun; Diplôme d’ingénieur d’état(Mohammadia d’ingénieurs), Ph.D.(Laval)
Robert D. Cairns; B.Sc.(Tor.), Ph.D.(MIT)
### Professors
- Rui Castro; M.A., Ph.D.(Roch.)
- Russell Davidson; B.Sc., Ph.D.(Glas.), Ph.D.(Br. Col.) (*Canada Research Chair Tier 1*)
- Jean-Marie Dufour; B.Sc.(McG.), M.Sc.(Montr.), M.A.(C’dia.), M.A.(Chic.), Ph.D.(Chic.) (*William Dow Chair of Political Economy*)
- John W. Galbraith; B.A.(Qu.), M.Phil., D.Phil.(Oxf.)
- Silvia Gonçalves; B.A.(UNL), Ph.D.(Calif.-San Diego)
- Christopher Green; M.A.(Conn.), Ph.D.(Wisc.)
- Jagdish Handsa; B.Sc.(LSE), 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.)
- Francisco Ruge-Murcia; B.Sc.(Industrial, Santander), M.A., Ph.D.(Virg.)
- 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.)
- Daniel Barczyk; B.Com., M.A.(Tor.), Ph.D.(NYU)
- Matthieu Chemin; M.Sc. Eng.(Centrale Paris), M.Sc., Ph.D.(LSE)
- James Engle-Warnick; B.S.E.E.(Akp.), M.B.A.(Carnegie), Ph.D.(Pitts.)
- Franque Grimard; B.A.(York), Ph.D.(Princ.)
- John C. Kurien; B.A.(Kerala), M.A., Ph.D.(Vanderbilt)
- Fabian Lange; B.Sc.(LSE), Ph.D.(Chic.) (*Canada Research Chair Tier 2*)
- Sonia Laszlo; B.A.(Ont.), M.A.(W. Ont.), Ph.D.(Tor.)
- Markus Poschke; M.Sc.(Maastricht), M.A.(Sciences Po, Paris), M.Res., Ph.D.(European University Institute, Italy) (*William Dawson Scholar*)
- Christopher T.S. Ragan; B.A.(Vic., BC), M.A.(Qu.), Ph.D.(MIT)
- Erin Strumpf; B.A.(Smith), Ph.D.(Harv.)
- 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
- Francesco Amodio; B.Sc.(Siena); M.Sc.(Barcelona GSE), Ph.D.(Pompeu Fabra)
- Saraswata Chaudhuri; B.Sc.(Presidency Univ., Kolkata), M.S.(Indian Statistical Inst.), Ph.D.(Wash.)
- Rohan Dutta; B.A.(St. Stephen’s College, Delhi), M.A.(DSE), Ph.D.(Wash.)
- Laura Lasio; B.Sc.(Bocconi), M.Phil.(TSE)
- Jian Li; B.A.(Tsinghua), M.A., Ph.D.(Calif., Berk.)
- Theodore Papageorgiou; B.A.(Athens), M.A., M.Phil., Ph.D.(Yale)

### Faculty Lecturers
- Paul Dickinson
- Mayssun El-Attar Vilalta
- Kenneth MacKenzie

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**3.11.6.5 Master of Arts (M.A.) Economics (Thesis) (48 credits)**

**This program is currently not offered.**
### Thesis Courses (30 credits)

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<th>Course</th>
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### Required Courses (6 credits)

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<tr>
<td>ECON 620</td>
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<td>Macroeconomic Theory 1</td>
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</table>

### Complementary Courses (12 credits)

Note: ECON 662D1/D2 or equivalent is strongly recommended but will not meet the 6-credit field requirement for the M.A.

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ECON 662D1</td>
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<tr>
<td>ECON 662D2</td>
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</tr>
<tr>
<td>ECON 665</td>
<td>3</td>
<td>Quantitative Methods</td>
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</table>

A minimum of 6 credits must be taken in the same field.

### Master of Arts (M.A.) Economics (Non-Thesis) (45 credits)

#### Research Project (18 credits)

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#### Required Courses (9 credits)

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#### Complementary Courses (18 credits)

Must include either:

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</tr>
<tr>
<td>ECON 665</td>
<td>3</td>
<td>Quantitative Methods</td>
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</tbody>
</table>

Note: ECON 662D1/D2 or equivalent is strongly recommended but will not meet the 6-credit field requirement for the M.A.
Additional courses, at the 500, 600, or 700 level, as determined by the student's area of study.

3.11.6.7 Master of Arts (M.A.) Economics (Non-Thesis): Development Studies (45 credits)

Research Project (18 credits)

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<td>ECON 680</td>
<td>3</td>
<td>M.A. Report 1</td>
</tr>
<tr>
<td>ECON 681</td>
<td>3</td>
<td>M.A. Report 2</td>
</tr>
<tr>
<td>ECON 682</td>
<td>3</td>
<td>M.A. Report 3</td>
</tr>
<tr>
<td>ECON 683</td>
<td>3</td>
<td>M.A. Report 4</td>
</tr>
</tbody>
</table>

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 610</td>
<td>3</td>
<td>Microeconomic Theory 1</td>
</tr>
<tr>
<td>ECON 620</td>
<td>3</td>
<td>Macroeconomic Theory 1</td>
</tr>
<tr>
<td>ECON 634</td>
<td>3</td>
<td>Economic Development 3</td>
</tr>
<tr>
<td>ECON 734</td>
<td>3</td>
<td>Economic Development 4</td>
</tr>
<tr>
<td>INTD 657</td>
<td>3</td>
<td>Development Studies Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

3 or 6 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 662D1</td>
<td>3</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 662D2</td>
<td>3</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 665</td>
<td>3</td>
<td>Quantitative Methods</td>
</tr>
</tbody>
</table>

6 or 9 credits of additional courses, at the 500, 600, or 700 level related to international development studies to be chosen in consultation with an adviser.

3.11.6.8 Master of Arts (M.A.) Economics (Non-Thesis): Population Dynamics (45 credits)

The Population Dynamics Option (PDO) is open to M.A. (non-thesis) students in Economics specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students’ knowledge of critical population issues. As such, students will be required to take a course on demographic methods and a course in microeconomic methods relevant for population studies. In addition, students will take one complementary course in Economics, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research topics must be related to population dynamics and approved by the PDO coordinating committee.

Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 650</td>
<td>3</td>
<td>Research 1</td>
</tr>
<tr>
<td>ECON 651</td>
<td>3</td>
<td>Research 2</td>
</tr>
<tr>
<td>ECON 680</td>
<td>3</td>
<td>M.A. Report 1</td>
</tr>
<tr>
<td>ECON 681</td>
<td>3</td>
<td>M.A. Report 2</td>
</tr>
<tr>
<td>ECON 682</td>
<td>3</td>
<td>M.A. Report 3</td>
</tr>
<tr>
<td>ECON 683</td>
<td>3</td>
<td>M.A. Report 4</td>
</tr>
</tbody>
</table>

Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 610</td>
<td>3</td>
<td>Microeconomic Theory 1</td>
</tr>
<tr>
<td>ECON 620</td>
<td>3</td>
<td>Macroeconomic Theory 1</td>
</tr>
</tbody>
</table>
ECON 742 (3) Empirical Microeconomics
SOCI 626 (3) Demographic Methods

**Complementary Courses (15 credits)**
3-6 credits from the following:
(either ECON 662D1/D2 or ECON 665)

- ECON 662D1 (3) Econometrics
- ECON 662D2 (3) Econometrics
- ECON 665 (3) Quantitative Methods

Note: ECON 662D1/D2 or equivalent is strongly recommended but will not meet the 6-credit field requirement for the M.A.

**Population Dynamics**
3 credits from the following:

- ECON 622 (3) Public Finance
- ECON 634 (3) Economic Development 3
- ECON 641 (3) Labour Economics
- ECON 734 (3) Economic Development 4
- ECON 741 (3) Advanced Labour Economics
- ECON 744 (3) Health Economics
- SOCI 502 (3) Sociology of Fertility

6-9 credits of additional approved complementary courses at the 500 level or higher (two courses in the same/approved field.)

- ECON 510 (3) Experimental Economics
- ECON 525 (3) Project Analysis
- ECON 531 (3) Historical Experience of Economic Development
- ECON 546 (3) Game Theory
- ECON 577 (3) Mathematical Economics 1
- ECON 611 (3) Microeconomic Theory 2
- ECON 621 (3) Macroeconomic Theory 2
- ECON 622 (3) Public Finance
- ECON 623 (3) Money and Banking
- ECON 624 (3) International Economics
- ECON 625 (3) Economics of Natural Resources
- ECON 634 (3) Economic Development 3
- ECON 637 (3) Industrial Organization and Regulation
- ECON 641 (3) Labour Economics
- ECON 647 (3) Applied Computational Economics
- ECON 654 (3) Research Methods in Economics
- ECON 688 (3) Seminar on Social Statistics
- ECON 706 (3) Selected Topics
- ECON 710 (3) Selected Topics in Economics
- ECON 720 (3) Advanced Game Theory
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 721</td>
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<td>Advanced Monetary Theory</td>
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<tr>
<td>ECON 724</td>
<td>(3)</td>
<td>International Economics</td>
</tr>
<tr>
<td>ECON 726</td>
<td>(3)</td>
<td>Topics in Environmental Economics</td>
</tr>
<tr>
<td>ECON 734</td>
<td>(3)</td>
<td>Economic Development 4</td>
</tr>
<tr>
<td>ECON 737</td>
<td>(3)</td>
<td>Industrial Organization and Regulation Seminar</td>
</tr>
<tr>
<td>ECON 741</td>
<td>(3)</td>
<td>Advanced Labour Economics</td>
</tr>
<tr>
<td>ECON 744</td>
<td>(3)</td>
<td>Health Economics</td>
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<td>ECON 752</td>
<td>(3)</td>
<td>Topics in Financial Economics</td>
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<tr>
<td>ECON 761</td>
<td>(3)</td>
<td>Econometrics: Time Series Analysis</td>
</tr>
<tr>
<td>ECON 762</td>
<td>(3)</td>
<td>Econometrics - Asymptotic and Finite - Sample</td>
</tr>
<tr>
<td>ECON 763</td>
<td>(3)</td>
<td>Financial Econometrics</td>
</tr>
<tr>
<td>ECON 765</td>
<td>(3)</td>
<td>Models for Financial Economics</td>
</tr>
</tbody>
</table>

Courses may not be double counted for both the Population Dynamics complementary course and other complementary courses.

3.11.6.9 Master of Arts (M.A.) Economics (Non-Thesis): Social Statistics (45 credits)

** This program is currently not offered. **

The program complements disciplinary training with research experience applying statistical methods to Statistics Canada data (or equivalent). Students will normally complete the regular program course requirements, supplemented by further statistical courses, as advised by the option adviser, and subject to approval by the home department.

**Research Project (18 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 650</td>
<td>(3)</td>
<td>Research 1</td>
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<tr>
<td>ECON 651</td>
<td>(3)</td>
<td>Research 2</td>
</tr>
<tr>
<td>ECON 680</td>
<td>(3)</td>
<td>M.A. Report 1</td>
</tr>
<tr>
<td>ECON 681</td>
<td>(3)</td>
<td>M.A. Report 2</td>
</tr>
<tr>
<td>ECON 682</td>
<td>(3)</td>
<td>M.A. Report 3</td>
</tr>
<tr>
<td>ECON 683</td>
<td>(3)</td>
<td>M.A. Report 4</td>
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</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 610</td>
<td>(3)</td>
<td>Microeconomic Theory 1</td>
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<tr>
<td>ECON 620</td>
<td>(3)</td>
<td>Macroeconomic Theory 1</td>
</tr>
<tr>
<td>ECON 654</td>
<td>(3)</td>
<td>Research Methods in Economics</td>
</tr>
<tr>
<td>ECON 688</td>
<td>(3)</td>
<td>Seminar on Social Statistics</td>
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</table>

**Complementary Courses (15 credits)**

Must include either:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 662D1</td>
<td>(3)</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 662D2</td>
<td>(3)</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 665</td>
<td>(3)</td>
<td>Quantitative Methods</td>
</tr>
</tbody>
</table>

Additional courses at the 500, 600, or 700 level, as determined by the student's area of study.

3.11.6.10 Doctor of Philosophy (Ph.D.) Economics

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 799</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Exam.</td>
</tr>
</tbody>
</table>

**Required Coursework (20 credits)**

20 credits in Economics beyond the M.A. requirements as described below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 662D1</td>
<td>(3)</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 662D2</td>
<td>(3)</td>
<td>Econometrics</td>
</tr>
<tr>
<td>ECON 770</td>
<td>(1)</td>
<td>PhD Research Seminar 1</td>
</tr>
<tr>
<td>ECON 771</td>
<td>(1)</td>
<td>PhD Research Seminar 2</td>
</tr>
</tbody>
</table>

At least 6 of the remaining 12 credits must be in a single field from the choices below:

- Advanced Theory
- Econometrics
- Economic Development
- Economic History
- Industrial Organization
- International Economics
- Health Economics
- Labour Economics
- Monetary Economics
- Public Finance

Other field combinations may be considered by the Graduate Program Director as requested.

### 3.11.7 English

#### 3.11.7.1 Location

Department of English  
Arts Building  
853 Sherbrooke Street West, Room 155C  
Montreal QC H3A 0G5  
Canada  
Telephone: 514-398-6564  
Fax: 514-398-8557  
Email: maria.vasile@mcgill.ca  
Website: www.mcgill.ca/english

#### 3.11.7.2 About English

The Department of English at McGill is unique, in that its program brings together three different but related areas of study: Literature, Drama and Theatre, and Cultural Studies. Graduate students, key participants in all areas of Department life, have the opportunity to explore aspects of Literature, Cultural Studies, Performance, and Theatre History in their seminar work and research. The Department is home to—or is a principal participant in—a number of major collaborative research projects, including the Burney Centre, the McGill Medievalists, the Bibliographic Society of Canada, and research teams on Shakespeare and Performance, Early Modern Conversions, Interacting with Print, Eating in Canada, and Novelists on the Novel. These research groups and projects are the most visible signs of cross-fertilization among the three areas of the Department's work, and of the Department's prominence in the development of interdisciplinary research and teaching at McGill and in the academy in general.

The English Department offers both M.A. and Ph.D. degrees. On average, there are 80 graduate students enrolled in the M.A. and Ph.D. programs each year.
The M.A. program admits 25 students each year from around the world. Unlike many other master's programs in English, the McGill M.A. culminates in a major piece of independent research, either a thesis or research paper, which is carried out under the supervision of a faculty member. Approximately half of McGill M.A. graduates go on to Ph.D. programs either at McGill or elsewhere. Other graduates have found employment with foundations, university development offices, publishing houses, consulting firms, and CEGEPs.

The Ph.D. program admits approximately six students each year from around the world. Doctoral students specialize in a broad range of fields within English studies.

All students who apply are considered for financial support, normally in the form of a scholarship that can be supplemented by Teaching or Research Assistantships.

The Department offers two options toward the M.A. degree; one thesis, and the other non-thesis. Both options consist of 48 credits and are designed to be completed in four terms (of 12 credits each). It is rare for any student pursuing the thesis option to complete the degree in less than two years, although some students do complete the research paper option in one year (Fall, Winter, and Summer terms) or in 16 months (Fall, Winter, Summer, and Fall terms).

section 3.11.7.5: Master of Arts (M.A.) English (Thesis) (48 credits)

In the thesis option, students must successfully complete Graduate Research Seminar (ENGL 694) and five seminars, and write a thesis of 80–100 pages that adheres to the guidelines set under the thesis regulations of Graduate and Postdoctoral Studies. Students submit a proposal for the thesis to the Graduate Administration Committee in the Department; the proposal must be approved before students begin working on the thesis. When completed, the thesis is submitted to the Thesis Office and is reviewed by an External Examiner.

section 3.11.7.6: Master of Arts (M.A.) English (Non-Thesis) (48 credits)

In the non-thesis option, students must successfully complete Graduate Research Seminar (ENGL 694) and seven seminars, and write a research paper of 40 pages. Students submit a proposal for the research paper to the Graduate Administration Committee in the Department; the proposal must be approved before students begin to write the research paper. The finished paper is evaluated by the supervisor and a second member of the Department. Although the Non-Thesis (research paper) M.A. is designed to be completed in two years, some students complete the program in one year (Fall, Winter, and Summer terms) or in 16 months (Fall, Winter, Summer, and Fall terms).

section 3.11.7.7: Doctor of Philosophy (Ph.D.) English

Students with an M.A. in English or a closely related discipline may apply to the Ph.D. program. In their first year (Ph.D. 2), doctoral students are expected to complete the two halves of the compulsory proseminar: ENGL 787 (taken in the Fall term) and ENGL 788 (taken in the Winter term), along with four seminars. The proseminars expose students to current academic issues, theoretical propositions, and professional questions. Students may substitute for the two second-term seminars one extended supervised Optional Research Project. Courses must be chosen in order to make possible the identification of a major and a minor area of concentration.

In Ph.D. 3, candidates complete a Compulsory Research Project in the area of the dissertation and submit the dissertation proposal. This Compulsory Research Project, a unique feature of the McGill Ph.D., serves the purpose of a field exam and replaces comprehensive exams, allowing students to work on a publishable piece of research. The language requirement must be fulfilled before the dissertation proposal is approved.

Doctoral students must complete the Ph.D. program within six years. A candidate intending to submit the thesis to meet the deadline for Spring Convocation must give notice of this intention before January 1. A candidate intending to meet the deadline for Fall Convocation must give such notice before May 1. The majority of students who complete the Ph.D. proceed to postdoctoral fellowships and teaching positions, either at CEGEP (colleges) or at universities.

3.11.7.3 English Admission Requirements and Application Procedures
3.11.7.3.1 Admission Requirements

M.A. Degree

Admission to the M.A. program requires a B.A. degree in English (honours or major) or its equivalent, with a very strong record of academic success (especially in the final two years of the B.A.). Typically, applicants will have solid training and coverage within their chosen area of theatre, cultural studies, or literature. Outstanding applicants from related disciplines may be invited to take a Qualifying year.

Ph.D. Degree

Admission to the doctoral program is highly competitive. Generally, outstanding students with the M.A. degree in hand apply to the doctoral program and are accepted into Ph.D. 2. In very rare circumstances, outstanding graduates of B.A. programs will be considered for “fast-tracking” into the doctoral program, entering at Ph.D. 1. For their first year, students follow the M.A. program (Thesis option) and, if their work is given a strong evaluation at the end of the first year, they then go on to complete the remaining requirements of the Ph.D. program.

3.11.7.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures for detailed application procedures.

Note: The English Department web page contains detailed instructions meant to help applicants complete the online application form in a way best suited to the Department’s needs. See “How to apply” at www.mcgill.ca/english/graduate/apply. Applicants are urged to read these departmental instructions closely and to keep them on hand as each section of the online application form is being completed and submitted.
Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Writing Sample
- Personal Statement (750–800 words)
- List of Awards and Publications

Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the English Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

English Faculty

Chair
T. Ponech

Emeritus Professors
M.D. Bristol; A.B.(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.(Cornell), 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)
M. Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)
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.)
- P. Gibian; B.A.(Yale), M.A.(NYU), Ph.D.(Stan.)
- Y. Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.)
- D.C. Hensley; B.A., M.A.(Trin. Coll., Cambridge), B.A., Ph.D.(Yale)
- M. Hickman; B.A.(Brown), M.A., Ph.D.(Mich.)
- E. Hurley; B.A.(McG.), M.A.(Brown), Ph.D.(CUNY)
- B. Kaite; B.A.(C'dia), M.A.(McM.), Ph.D.(Car.)
- P. Neilson; B.A.(Bishop's), M.F.A.(Calg.)
- D. Nystrom; B.A.(Wisc.), M.A., Ph.D.(Virg., Charlottesville)
- A. Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.)
- T. Ponech; B.A.(McG.), Ph.D.(N'western)
- M. Popescu; B.A., M.A.(Bucharest), M.A.(Windsor), Ph.D.(Penn.)
- F. Ritchie; B.A., M.A.(Durh.), Ph.D.(Lond.)
- D. Salter; B.A.(Br. Col.), M.A., Ph.D.(Tor.)
- N. 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.)
- A. Thain; B.A.(McG.), Ph.D.(Duke)
- M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.)

### Assistant Professors

- S. Banerjee; B.A., M.A.(Jad.), M.Phil.(Oxf.), Ph.D.(Syrac.)
- M. Emre; B.A. (Harvard Coll.); M.A., Ph.D.(Yale)
- E. MacLaren; B.A.(Alta.), M.A.(W. Ont.), Ph.D.(Tor.)
- M. Nicholson; B.A.(Calif., Berk.), Ph.D.(Calif.-LA)
- K. Zien; B.A.(Col.), Ph.D.(N'western)

### 3.11.7.5 Master of Arts (M.A.) English (Thesis) (48 credits)

#### Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ENGL 695</td>
<td>(3)</td>
<td>M.A. Thesis Preparation</td>
</tr>
<tr>
<td>ENGL 699</td>
<td>(24)</td>
<td>M.A. Thesis</td>
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#### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 694</td>
<td>(6)</td>
<td>Graduate Research Seminar</td>
</tr>
</tbody>
</table>

#### Complementary Courses (15 credits)

15 credits of Departmental seminar courses at the 500, 600, or 700 level.

### 3.11.7.6 Master of Arts (M.A.) English (Non-Thesis) (48 credits)

#### Research Project (18 credits)

18 credits of independent study, if available.
M.A. Research Paper Preparation 1
ENGL 681 (3) M.A. Research Paper Preparation 2
ENGL 682 (3) M.A. Research Paper Preparation 3
ENGL 683 (3) M.A. Research Paper
ENGL 684 (9)

Required Courses (9 credits)
ENGL 693 (3) Research Methods
ENGL 694 (6) Graduate Research Seminar

Complementary Courses (21 credits)
21 credits of Departmental seminar courses at the 500, 600, or 700 level.

3.11.7 Doctor of Philosophy (Ph.D.) English

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)
ENGL 787 (3) Research Seminar 1
ENGL 788 (3) Research Seminar 2
ENGL 797 (6) Compulsory Research Project
ENGL 798 (3) Dissertation Proposal

Complementary Courses (12 credits)
Four Departmental seminars

OR

two Departmental seminars and
ENGL 796 (6) Research Project

3.11.8 French Language and Literature

3.11.8.1 Coordonnées
Département de langue et littérature françaises
Pavillon des Arts
853, rue Sherbrooke ouest, bureau 155
Montréal, Québec H3A 0G5
Téléphone : 514-398-3772
Télécopieur : 514-398-8557
Courriel : grad.littfran@mcgill.ca
Site web : www.mcgill.ca/litterature/fr

3.11.8.2 Généralités : Langue et littérature françaises
Le DLLF offre un environnement particulièrement convivial et stimulant pour des étudiants qui souhaitent faire une maîtrise ou un doctorat dans le vaste domaine des littératures de langue française, des théories littéraires ou de la traduction littéraire. Le DLLF offre aussi un M.A. avec option en écriture littéraire.
GRADUATE AND POSTDOCTORAL STUDIES

(« création littéraire » et « traduction littéraire ») et un M.A. avec option en études sur les femmes et le genre. Le DLLF accorde un financement à tous ses étudiants, ainsi que des assistantats de recherche (et des charges d’enseignement pour les étudiants de Ph. D.). Nous sommes l’un des seuls départements de littérature en Amérique à avoir signé une entente officielle avec l’École Normale Supérieure de Paris grâce à laquelle nous offrons un stage d’un an à certains étudiants de Ph. D.

M.A. avec mémoire et sans mémoire, et Ph. D.

Maîtrise

Le programme de maîtrise est à la fois un programme complet en soi et une première étape vers le Ph. D. Il vise deux buts également importants :

1. Permettre à l’étudiant de compléter et d’approfondir ses connaissances dans le domaine littéraire grâce à un programme d’enseignement portant sur les littératures française et québécoise de même que sur une variété de sujets connexes : théorie littéraire, histoire de la langue, histoire des idées, etc.
2. Favoriser l’apprentissage de la recherche et un début de spécialisation de la part de l’étudiant qui suit des séminaires d’initiation à la recherche littéraire et, soit rédige un mémoire, soit exécute d’autres travaux de recherche sous la direction des professeurs du Département.

La durée des études de maîtrise est normalement de deux ans. Dans le cas de la maîtrise avec mémoire, elle comprend deux trimestres pour la soralité (M.A. I), suivis de la rédaction du mémoire. Dans le cas de la maîtrise sans mémoire, la soralité s’étend sur trois trimestres, suivis de la rédaction de trois travaux réalisés dans le cadre du FREN 698.

La Commission des admissions du Département peut accorder des dérogations au règlement des inscriptions à la Maîtrise en fonction du dossier de chaque étudiant.

Une partie de la soralité (maximum de 6 crédits) peut être suivie dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université, pourvu que les cours et séminaires y soient de même niveau que les cours 600 ou 700 offerts par le Département. Dans tous les cas, l'étudiant doit obtenir l'autorisation du Directeur des études de 2e et 3e cycles et de la recherche, qui ne sera accordée que si les cours en question cadrent avec le programme d'études du candidat.

La note de passage est B- (65 %).

Ph. D.

Épreuve d’anglais

Tous les étudiants de Ph. D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790).

Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas.

Aucune dispense n'est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Programme

Le programme de Ph. D. comporte trois parties :

- Soralité
- Élaboration du projet de thèse et Examen préliminaire
- Thèse

Soralité

L’admission se fait normalement au niveau de Ph. D. II. Lorsqu’un candidat, par exception, est admis en Ph. D. I, sa soralité pendant cette année est la même que pour l’année de M.A. I (voir ci-dessus).

Ph. D. II :

Trois séminaires au choix, ainsi que les Séminaires de doctorat 1 et 2 (FREN 710 et FREN 711) qui sont obligatoires.

Ph. D. III :

Élaboration du sujet de thèse (FREN 706, 0 crédit) et Examen préliminaire (FREN 707, 0 crédit).

Le projet de thèse est soumis au Comité des études de 2e et 3e cycles et de la recherche ; puis l’Examen préliminaire, qui consiste en la rédaction et la défense orale d’un document d’une cinquantaine de pages, a lieu à une date convenue entre les intéressés, devant un jury constitué de trois professeurs (le comité-conseil).

Ph. D. IV Thèse

Le comité-conseil, constitué au moment de l’Examen préliminaire, comprend le directeur de thèse et deux autres professeurs. Le rôle de ce comité-conseil est de suivre d’aussi près que possible le travail du candidat et de discuter avec lui de l’orientation de ses recherches.

La soutenance de la thèse a lieu devant un jury d’au moins six personnes, présidé par un représentant du Doyen ; font partie du jury : le directeur de thèse, un des deux membres du comité-conseil, un autre professeur du Département, l’évaluateur externe (extérieur à McGill) et le directeur du Département.

section 3.11.8.5 : Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire) (48 crédits)

Les étudiants inscrits dans nos programmes de maîtrise sont détenteurs d’un baccalauréat avec spécialisation dans la discipline (ou l’équivalent). La maîtrise avec mémoire comprend deux trimestres de séminaires, à l’issue desquels les étudiants déposent un projet de mémoire dans le domaine de leur choix, puis consacrent leur deuxième année de programme à la rédaction du mémoire.
section 3.11.8.5: Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire) (48 crédits)

Les deux premières sessions du programme de maîtrise sont consacrées à la scolarité, pour les étudiants inscrits à temps complet ; ils doivent alors suivre 6 séminaires de 3 crédits (dont le FREN 697) et préparer leur sujet de mémoire (FREN 696 : 6 crédits). Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

L'étudiant peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire.

section 3.11.8.6: Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (48 crédits)

L'option en études sur les femmes et le genre (« Graduate Option in Gender and Women's Studies ») est un programme pluridisciplinaire offert aux étudiants qui remplissent en même temps toutes les exigences du programme de maîtrise avec mémoire du Département de langue et littérature françaises. En plus des deux cours obligatoires suivis au Département, les étudiants doivent suivre un cours de 3 crédits réservé aux étudiants de cette option. Parmi les cours au choix, les étudiants doivent suivre deux cours de 3 crédits chacun qui ont été approuvés par l’option et qui portent sur des questions reliées au genre et aux recherches et méthodologies féministes. Leur mémoire doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes.

Les deux premières sessions du programme de maîtrise sont consacrées à la scolarité, pour les étudiants inscrits à temps complet ; ils doivent alors suivre 6 séminaires de 3 crédits (dont le FREN 697) et préparer leur sujet de mémoire (FREN 696 : 6 crédits). Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

L'étudiant peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire.

section 3.11.8.7: Maîtrise ès arts (M.A.) Langue et littérature françaises (sans mémoire) (48 crédits)

La maîtrise sans mémoire comprend trois trimestres de séminaires après quoi les étudiants préparent trois travaux de recherche (30 pages chacun) sous la direction de trois professeurs. Parmi les débouchés qui s'offrent aux diplômés, on compte l’enseignement (au niveau collégial) de même que divers métiers liés à la littérature et à la communication écrite (notamment dans le milieu éditorial).

Les trois premières sessions du programme sont consacrées à la scolarité, pour les étudiants inscrits à temps complet ; ils doivent suivre 8 séminaires de trois crédits, soit 4 par session. Les cours FREN 697 et FREN 600 sont obligatoires. Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

section 3.11.8.8: Doctorat (Ph. D.) Langue et littérature françaises

Les étudiants inscrits dans notre programme de doctorat sont titulaires d’une maîtrise dans la discipline (ou l’équivalent). Après une scolarité de deux trimestres, ils déposent au cours de la deuxième année leur projet de thèse et disposent d’un an pour préparer un examen préliminaire à la rédaction de leur thèse. L’ensemble du processus prend normalement entre quatre et cinq ans. Un grand nombre de nos diplômés se destinent à une carrière universitaire.

section 3.11.8.9: Doctorat (Ph. D.) Langue et littérature françaises: études sur les femmes et le genre

Pour obtenir de plus amples renseignements, veuillez communiquer avec le Département.

3.11.8.3 Conditions d'admission au Département de langue et littérature françaises

3.11.8.3.1 Conditions d'admission

Propédéutique

Peuvent être admis en Propédéutique les étudiants titulaires d’un B.A. qui ont une formation partielle en littérature, et qui sont alors tenus de s’inscrire à temps complet à un programme de 8 cours de premier cycle, établi lors de leur inscription.

M.A.

Pour être admis directement en M.A. I, le candidat doit être titulaire d’un B.A. avec spécialisation en littérature française, québécoise ou francophone, ou en traduction (« Honours »), ou d’un B.A. avec double spécialisation (« Joint Honours ») ou l'équivalent. Le candidat doit également présenter un très bon dossier académique, soit une moyenne d'au moins 75 %; le B.A. ne donne pas automatiquement droit à l'admission.

Ph. D.

Pour être admis au programme de Ph. D., le candidat doit satisfaire aux conditions suivantes :

1. Être titulaire d'un M.A. en littérature française, québécoise ou francophone, ou l’équivalent; avoir obtenu au cours de sa scolarité de maîtrise une moyenne d'au moins 75%.

2. Présenter un projet de recherche, en français, indiquant avec une certaine précision le domaine et la méthodologie de la recherche qu'il envisage de poursuivre pour sa thèse de doctorat et le nom du professeur sous la direction duquel il souhaite travailler. La Commission des admissions sera mieux à même de juger, d’après ce projet, du sérieux du candidat et de ses aptitudes à la recherche littéraire avancée.

3.11.8.3.2 Demande d'admission

Le formulaire de demande d'admission par le web est disponible pour tous les candidats aux études supérieures à l'adresse suivante : www.mcgill.ca/gradapplicants/apply.
Pour connaître les procédures détaillées relatives à l’ensemble des demandes d'admission, consultez University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures.

3.11.8.3.2 Autres exigences

Les éléments et les éclaircissements ci-dessous sont des exigences supplémentaires fixées par ce département :

- Échantillon de travail écrit – les étudiants de l'extérieur du Département doivent fournir un échantillon de travail écrit, en français
- Projet de recherche
- Curriculum Vitae (pour être admis au programme de Ph.D.)

3.11.8.3.3 Dates importantes et dates limites

Les dates d’ouverture de dépôt des demandes d’admission sont fixées par La Gestion de l’effectif étudiant en consultation avec Graduate and Postdoctoral Studies (GPS ; Les Études supérieures et postdoctorales), tandis que les dates limites pour les demandes d’admission sont fixées par le Département de langue et littérature françaises et peuvent être révisées à tout moment sans préavis. Il est de la responsabilité du candidat de s'informer des dates limites et des documents requis pour soumettre une demande d’admission en consultant le site du Département de langue et littérature françaises. On trouvera sur la page suivante la liste des responsables des programmes d'études supérieures : www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Dates d’ouverture des demandes d’admission</th>
<th>Dates limites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tous les candidats</td>
<td>Étudiants étrangers (incl. étudiants à statut particulier, à statut de visiteur et en échange)</td>
</tr>
<tr>
<td>Automne :</td>
<td>Le 15 septembre</td>
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<td>Hiver :</td>
<td>Le 15 février</td>
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<td>Été :</td>
<td>S.O.</td>
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* La date limite est le 1er février pour les étudiants qui souhaitent être recommandés pour les bourses.

L'admission aux études supérieures est selective. Les dossiers d'admission soumis après la date limite ne seront évalués que si le temps le permet.

**Nota :** Nous n'examinerons aucune demande d'admission visant le trimestre d'été.

3.11.8.4 Professeurs du Département de langue et littérature françaises

**Directeur**

P. Brisette

**Directeur des études de 2e et 3e cycles et de la recherche**

M. Biron

**Professeurs émérites**

M. Angenot; L. Phil. Romane, Dr. Phil. & Lettres (Bruxelles), M.S.R.C. *(James McGill Professor)*

G. Di Stefano; Dr. ès L.(Turin), Dipl. Phil., Dr. 3e Cy.(Paris IV)

J.-P. Duquette; L. ès L.(Montr.), Dr. 3e Cy.(Paris X)

Y. Lamonde; M.A.(Montr.), Dr. 3e Cy.(Paris X)

Y. Rivard; M.A.(McG.), Dr. 3e Cy.(Aix-Marseille)

**Professeurs**

M. Biron; M.A.(Montr.), Dr. Phil. & Lettres (Liège)

F. Charbonneau; M.A., Ph.D.(Montr.)

I. Daunais; M.A., Ph.D.(McG.) *(Chaire de recherche du Canada)*

D. Desrosiers; M.A., Ph.D.(Montr.), M.S.R.C. *(James McGill Professor)*

O. Dyens; M.A., Ph.D.(Montr.)
Professeurs agrégés

I. Arseneau; M.A.(W. Ont.), Ph.D.(Montr.)
A. Bernadet; M.A., D.E.A., Dr. 3e Cy.(Paris VIII)
C. Bouchard; M.A.(Montr.), Dr. 3e Cy.(Paris VII)
P. Brissette; M.A.(Montr.), Ph.D.(McG.)
A. Chapdelaine; M.A., Dr. 3e Cy.(Paris VIII)
A. Coussy; M.A.(Aix-Marseille), Dr. 3e Cy.(Paris III)
N. Doiron; M.A., Ph.D.(Montr.)
J. Everett; M.A.(Car.), Ph.D.(McG.)
A. Farah; M.A., Ph.D.(UQAM)
G. Lane-Mercier; M.A.(Montpellier), Ph.D.(McG.)
C. Leclerc; M.A.(UQAM), Ph.D.(C'dia)

Professeur adjoint

M. Diouf; M.A.(Cheikh Anta Diop), Ph.D.(Laval)

3.11.8.5 Maitrise ès arts (M.A.) Langue et littérature françaises (avec mémoire) (48 crédits)

Mémoire (24 crédits)

FREN 699 (24) M.A. Thesis

Cours obligatoires (9 crédits)

FREN 696 (6) Élaboration projet de mémoire
FREN 697 (3) Méthodologie et théorie littéraires

Cours complémentaires (15 crédits)

5 séminaires; un maximum de 6 crédits peuvent être suivis dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

Les séminaires suivants sont fortement recommandés aux étudiants qui ont l'intention de présenter un mémoire d'écriture littéraire.

FREN 609 (3) Atelier de création littéraire
FREN 611 (3) L'expérience littéraire

3.11.8.6 Maitrise ès arts (M.A.) Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (48 crédits)

Mémoire (24 crédits)

FREN 699 (24) M.A. Thesis

Cours obligatoires (12 crédits)

FREN 696 (6) Élaboration projet de mémoire
FREN 697 (3) Méthodologie et théorie littéraires
WMST 601 (3) Feminist Theories and Methods

Cours complémentaires
12 crédits au 500 niveau ou plus.
Six crédits de séminaires au choix parmi les séminaires du Département ou à l'extérieur du Département qui ont été approuvés par l'option.
Six crédits de séminaires au choix, dont un peut être suivi à l'extérieur du Département.

3.11.8.7 Maîtrise arts (M.A.) Langue et littérature françaises (sans mémoire) (48 crédits)

Projet de recherche (18 crédits)
Les étudiants complètent le programme de maîtrise en rédigeant trois travaux de recherche.

FREN 698 (18) Master's Seminar

Cours obligatoires (6 crédits)
FREN 600 (3) Travaux dirigés 1
FREN 697 (3) Méthodologie et théorie littéraires

Cours complémentaires (24 crédits)
24 crédits, 8 cours; un maximum de 6 crédits peuvent être suivis dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

3.11.8.8 Doctorat (Ph. D.) Langue et littérature françaises

Thèse
Une thèse de doctorat doit constituer une recherche inédite et représenter un apport distinct au savoir. Elle doit témoigner de la connaissance des travaux antérieurs réalisés dans le domaine et montrer la capacité de planifier et d’accomplir la recherche, d’organiser les résultats et de défendre la démarche et les conclusions de manière savante. Le travail de recherche présenté doit correspondre aux normes actuelles de la discipline; la thèse doit en outre clairement montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Épreuve d'anglais
Tous les étudiants de Ph. D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790). Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas.
Aucune dispense n'est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Ph. D. II

Cours obligatoires (3 crédits)
Trois séminaires au choix, ainsi que les Séminaires de doctorat suivants qui sont obligatoires:

FREN 710 (1.5) Séminaire de doctorat 1
FREN 711 (1.5) Séminaire de doctorat 2
FREN 790 (0) Language Requirement

Ph. D. III

Cours obligatoires
FREN 706 (0) Élaboration du sujet de thèse
FREN 707 (0) Examen préliminaire

Les étudiants de doctorat peuvent obtenir un maximum de 3 crédits en suivant des cours hors du Département, que ce soit à McGill (cours décrits dans l’annuaire des Études supérieures et postdoctorales (‘University Calendar of Graduate and Postgraduate Studies’) ou dans une autre université. L’étudiant
qui choisit cette option doit obtenir l’autorisation du Directeur des études de 2e et 3e cycles et de la recherche, autorisation qui ne sera accordée que si les cours en question cadrent avec son programme d’études et sont du niveau approprié.

3.11.8.9 Doctorat (Ph. D.) Langue et littérature françaises: études sur les femmes et le genre

L’Option en études sur les femmes et le genre (« Graduate Option in Gender and Women’s Studies ») est un programme pluridisciplinaire offert aux étudiants qui remplissent en même temps toutes les exigences du programme de doctorat du Département de langue et littérature françaises. En plus les cours obligatoires suivis au Département, les étudiants doivent suivre trois cours de 3 crédits chacun qui ont été approuvés par l’Option et qui portent sur des questions reliées au genre et aux recherches et méthodologies féministes. Leur thèse doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes.

Thèse

Une thèse de doctorat doit constituer une recherche inédite et représenter un apport distinct au savoir. Elle doit témoigner de la connaissance des travaux antérieurs réalisés dans le domaine et montrer la capacité de planifier et d’accomplir la recherche, d’organiser les résultats et de défendre la démarche et les conclusions de manière savante. Le travail de recherche présenté doit correspondre aux normes actuelles de la discipline; la thèse doit en outre clairement montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Épreuve d'anglais

Tous les étudiants de Ph. D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790). Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas. Aucune dispense n’est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Cours obligatoires (9 crédits)

- FREN 710 (1.5) Séminaire de doctorat 1
- FREN 711 (1.5) Séminaire de doctorat 2
- FREN 790 (0) Language Requirement
- WMST 601 (3) Feminist Theories and Methods
- WMST 602 (3) Feminist Research Symposium

Cours complémentaires (3 crédits)

Un séminaire (3 crédits) au choix de niveau 500 ou plus parmi les séminaires du Département qui ont été approuvés par l'option et qui portent sur les femmes et le genre. Ce cours ne peut pas être suivi à l’extérieur du Département.

3.11.9 Geography

3.11.9.1 Location

Department of Geography
Burnside Hall
805 Sherbrooke Street West, Room 705
Montreal QC H3A 0B9
Canada
Telephone: 514-398-4111
Fax: 514-398-7437
Email: grad.geog@mcgill.ca
Website: www.mcgill.ca/geography

3.11.9.2 About Geography

The Department of Geography offers research and thesis-based graduate programs leading to a Master of Arts (M.A.), a Master of Science (M.Sc.), or a doctorate (Ph.D.). In its scope, our program includes the opportunity to conduct field-based studies in both the natural (i.e., biophysical) and the social sciences. Thematic areas of study include:

- Political, Urban, Economic, and Health Geography;
- Environment and Development;
- Geographic Information Systems and Remote Sensing;
- Land Surface Processes, Ecosystem Biogeochemistry, and Ecohydrology;
Earth System Science and Global Change;
Sustainability Science and Environmental Management.

Geography houses McGill'sHitschfield Geographic Information Centre, maintains the McGill Arctic Research Station (Axel Heiburg Island, Nunavut Territory) and the McGill Sub-Arctic Research Station (Schefferville, Quebec), and has strong ties with McGill's School of Environment. Faculty and students conduct research in fields as diverse as climate change impacts, periglacial geomorphology, and forest resource history in regions ranging from the Arctic to Southeast Asia, and Latin America.

Being both a natural and a social science, geography provides a unique opportunity to obtain a broad interdisciplinary exposure to modes of analyzing the many environmental and situational problems of contemporary society. Because of this, a geography degree is a fantastic opportunity to obtain a career in one of a diverse range of fields. Our students have gone on to become United Nations field researchers in Laos, environmental consultants in Toronto, science teachers in the U.S., geography professors in many parts of the world, UNHCR volunteers in Malaysia, policy analysts, and physical scientists in government agencies and research councils, as well as health and social policy researchers in Montreal...the list goes on! If you're on Facebook, look for McGill Geography Alumni or visit our website to learn more about the advantages of having a geography degree from McGill!

Master's degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses.

Geography also offers in association with other McGill departments and programs a number of M.A. and M.Sc. options that students may choose to follow. Students must pass the courses specified for their program, attend such additional courses as the Chair and the student's thesis supervisor see fit, and submit a thesis in an appropriate area of geographical inquiry approved by the advisor.

McGill Northern Research Stations

The McGill Sub-Arctic Research Station is located in Schefferville, in the centre of Quebec-Labrador. Facilities exist for research in most areas of physical and some areas of human geography in the subarctic.

McGill University also operates a field station at Expedition Fjord on Axel Heiberg Island in the High Arctic. Facilities are limited to a small lab, dorm building, and cookhouse. Research activities focus on the glacial and geological. For additional information on these stations, contact the Scientific Director, Wayne Pollard, Department of Geography, at wayne.pollard@mcgill.ca.

Master of Arts (M.A.) Programs in Geography

Detailed program requirements for the following M.A. programs are found in Arts > Graduate > Browse Academic Units & Programs > Geography.

section 3.11.9.5: Master of Arts (M.A.) Geography (Thesis) (45 credits)

Master's degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.

section 3.11.9.6: Master of Arts (M.A.) Geography (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is cross-disciplinary in scope within existing master's programs in Geography, Anthropology, History, Political Science, Economics, and Sociology. Its components include the thesis; required International Development and Geography courses; and complementary courses from the participating departments. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

section 3.11.9.7: Master of Arts (M.A.) Geography (Thesis): Environment (45 credits)

The Environment option is offered in association with the McGill School of Environment (MSE) and is composed of a thesis component, required, and complementary Geography and Environment courses. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

section 3.11.9.8: Master of Arts (M.A.) Geography (Thesis): Gender and Women's Studies (45 credits)

This is an interdisciplinary program for Geography students wishing to focus on gender and women's studies and issues in feminist research and methods. Included within it are a thesis on gender and women's studies, required, and complementary courses from Geography and Women's Studies.

section 3.11.9.9: Master of Arts (M.A.) Geography (Thesis): Neotropical Environment (45 credits)

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master's or Ph.D. students offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology,
Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 3.11.9.9: Master of Arts (M.A.) Geography (Thesis): Neotropical Environment (45 credits)

Master's degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.

section 14.11.6.5: Master of Science (M.Sc.) Geography (Thesis) (45 credits)

The Environment option is offered in association with the McGill School of Environment (MSE) and is composed of a thesis component; required Geography and Environment courses; and complementary Geography and Environment courses. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

section 14.11.6.6: Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits)

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master's students offered in association with several university departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 14.11.6.7: Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research, and coursework chosen in collaboration with the student’s supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course, and a minimum of two complementary courses.

section 3.11.9.10: Doctor of Philosophy (Ph.D.) Geography

The Environment option consists of the thesis and comprehensive examination; required courses from Geography and Environment; and complementary courses in Environment or other fields recommended by the research committee and approved by the Environment Option Committee. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment, in partnership with participating academic units.

section 3.11.9.11: Doctor of Philosophy (Ph.D.) Geography: Environment

This doctoral option is an interdisciplinary program for students who meet the degree requirements in Geography and who wish to earn 9 credits of approved coursework on gender and women’s studies and issues in feminist research and methods. It includes a thesis centrally related to gender and/or women’s studies; the comprehensive examination; required courses in Geography and Women’s Studies; and complementary courses, one of which must pertain to gender and/or women’s issues.

section 3.11.9.12: Doctor of Philosophy (Ph.D.) Geography: Gender and Women’s Studies

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Ph.D. students offered in association with several university departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis; comprehensive
section 3.11.9.13: Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

examination; required courses in Geography, Environment and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO’s core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

3.11.9.3 Geography Admission Requirements and Application Procedures

3.11.9.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures, but with primary undergraduate specialization in a cognate field, may be admitted to the M.A. or M.Sc. degree in Geography in certain circumstances. In general, they, and others who have deficiencies in their preparation but are otherwise judged to be acceptable, will be required to register for a Qualifying program or to undertake additional courses.

Ph.D. Degree

Students who have completed a master's degree in Geography or a related discipline (with high standing) may be admitted at the Ph.D. 2 level. On rare occasions, a student may be admitted to the Ph.D. degree without having first taken the master's degree. These students, and others who have deficiencies in their preparation but are otherwise acceptable, will be required to register for a year of coursework and/or be required to take extra courses. The normal duration of a program, including field work where required, is three years.

Normally, the Department will restrict admission to the Ph.D. program to students prepared to work in one of the fields of human or physical geography in which specialized supervision is offered. These fields, which cover a wide range of systematic areas, are listed in documents available from the Department.

3.11.9.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Further departmental application information is listed at www.mcgill.ca/geography/graduate.

3.11.9.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Proposal
- Letters of Reference – two references required for M.A. and M.Sc. programs; three references required for Ph.D. program
- Curriculum Vitae

3.11.9.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Geography Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.9.4 Geography Faculty

Chair

N.T. Roulet
Graduate Program Director

O.T. Coomes

Post-Retirement

S.H. Olson; M.A., Ph.D.(Johns Hop.)

Professors

P.G. Brown; M.A., Ph.D.(Col.) (cross appt. with McGill School of Environment)
O.T. Coomes; M.A.(Tor.), Ph.D.(Wisc. Mad.)
T.R. Moore; Ph.D.(Aberd.), F.R.S.C.
W.H. Pollard; M.A.(Guelph), Ph.D.(Ott.)
N.A. Ross; M.A.(Qu.), Ph.D.(McM.)
N.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (James McGill Professor)
S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)
G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

Associate Professors

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)
G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)
B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)
M. Kalacska; Ph.D.(Alta.)
M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)
B. Lehner; Ph.D.(Frankfurt)
T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Cant.)
N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)
R. Sengupta; M.Sc., Ph.D.(Ill.) (joint appt. with McGill School of Environment)
R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (joint appt. with McGill School of Environment)
I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (cross appt. with Natural Resource Sciences)
J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.)

Assistant Professors

Y. le Polain de Waroux; Ph.D.(Louvain)
G. MacDonald; M.Sc., Ph.D.(McG.)
K. Manaugh; Ph.D.(McG.)
S. Moser; Ph.D.(Sing.)
M. Riva; M.Sc., Ph.D.(Montr.) (joint appt. with the Institute for Health and Social Policy)
B. Robinson; Ph.D.(Wisc. Mad.)

Adjunct Professor

J. Wu

3.11.9.5 Master of Arts (M.A.) Geography (Thesis) (45 credits)

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 698</td>
<td>6</td>
<td>Thesis Proposal</td>
</tr>
<tr>
<td>GEOG 699</td>
<td>24</td>
<td>Thesis Research</td>
</tr>
</tbody>
</table>
Required Courses (3 credits)
GEOG 631 (3) Methods of Geographical Research

Complementary Courses (12 credits)
12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3.11.9.6 Master of Arts (M.A.) Geography (Thesis): Development Studies (45 credits)
The Development Studies Option (DSO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

Thesis Courses (30 credits)
GEOG 698 (6) Thesis Proposal
GEOG 699 (24) Thesis Research

Required Courses (6 credits)
GEOG 631 (3) Methods of Geographical Research
INTD 657 (3) Development Studies Seminar

Complementary Courses (9 credits)
9 credits of courses at the 500 level or higher related to geography and international development studies to be chosen in consultation with an adviser. GEOG 696 can count among these complementary credits for students with an appropriate background.

3.11.9.7 Master of Arts (M.A.) Geography (Thesis): Environment (45 credits)
The Environment Option is offered in association with the McGill School of Environment and is composed of a thesis component (24 credits), required Geography and Environment courses (9 credits), and complementary Geography and Environment (12 credits) courses.

Thesis Courses (24 credits)
GEOG 697 (18) Thesis Research (Environment Option)
GEOG 698 (6) Thesis Proposal

Required Courses (9 credits)
ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3
GEOG 631 (3) Methods of Geographical Research

Complementary Courses (12 credits)
9 credits of courses at the 500 level or higher selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from one of the following:
or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

3.11.9.8 Master of Arts (M.A.) Geography (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Geograpy who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's M.A. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Note: Candidates for the M.A. degree follow an individual program approved by the Department.

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 698</td>
<td>6</td>
<td>Thesis Proposal</td>
</tr>
<tr>
<td>GEOG 699</td>
<td>24</td>
<td>Thesis Research</td>
</tr>
</tbody>
</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 631</td>
<td>3</td>
<td>Methods of Geographical Research</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

6 credits at the 500 level or above in Geography. GEOG 696 can count among these complementary credits for students with an appropriate background.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

OR one 3-credit graduate course on gender/women's issues.

3.11.9.9 Master of Arts (M.A.) Geography (Thesis): Neotropical Environment (45 credits)

The Neotropical Environment Option is offered in association with several university departments, the McGill School of Environment and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis, comprehensive examination, required (9 credits) courses in Geography, Environment and Biology, and complementary courses (3 credits) chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science.

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 698</td>
<td>6</td>
<td>Thesis Proposal</td>
</tr>
<tr>
<td>GEOG 699</td>
<td>24</td>
<td>Thesis Research</td>
</tr>
</tbody>
</table>

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>3</td>
<td>Tropical Biology and Conservation</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>GEOG 631</td>
<td>3</td>
<td>Methods of Geographical Research</td>
</tr>
</tbody>
</table>
Complementary Course (3 credits)
3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Courses (3 credits)
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

3.11.9.10 Doctor of Philosophy (Ph.D.) Geography
The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student’s supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course (3 credits), and a minimum of two complementary courses (6 credits). The Ph.D. in Geography also includes several options.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 631</td>
<td>(3)</td>
<td>Methods of Geographical Research</td>
</tr>
<tr>
<td>GEOG 700</td>
<td>(0)</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>GEOG 701</td>
<td>(0)</td>
<td>Comprehensive Examination 2</td>
</tr>
<tr>
<td>GEOG 702</td>
<td>(0)</td>
<td>Comprehensive Examination 3</td>
</tr>
</tbody>
</table>

Complementary Courses
Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

3.11.9.11 Doctor of Philosophy (Ph.D.) Geography: Environment
The option consists of the thesis and comprehensive examination, required courses (9 credits) from Geography and Environment and complementary courses (9 credits) in Environment or other fields recommended by the research committee and approved by the Environment Option Committee.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>(1)</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>(1)</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>(1)</td>
<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>GEOG 631</td>
<td>(3)</td>
<td>Methods of Geographical Research</td>
</tr>
</tbody>
</table>

Complementary Courses
Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

One course chosen from the following:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>(3)</td>
<td>Global Environmental Politics</td>
</tr>
</tbody>
</table>
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Comprehensives

GEOG 700 (0) Comprehensive Examination 1
GEOG 701 (0) Comprehensive Examination 2
GEOG 702 (0) Comprehensive Examination 3

3.11.9.12 Doctor of Philosophy (Ph.D.) Geography: Gender and Women’s Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Geography who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

GEOG 631 (3) Methods of Geographical Research
GEOG 700 (0) Comprehensive Examination 1
GEOG 701 (0) Comprehensive Examination 2
GEOG 702 (0) Comprehensive Examination 3
WMST 601 (3) Feminist Theories and Methods
WMST 602 (3) Feminist Research Symposium

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

3.11.9.13 Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

The Neotropical Option is offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis, comprehensive examination, required courses (9 credits) in Geography, Environment and Biology, and complementary courses (3 credits) chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science.

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
Tropical Biology and Conservation (3) BIOL 640
Foundations of Environmental Policy (3) ENVR 610
Methods of Geographical Research (3) GEOG 631
Comprehensive Examination 1 (0) GEOG 700
Comprehensive Examination 2 (0) GEOG 701
Comprehensive Examination 3 (0) GEOG 702

Elective Courses
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

3.11.10 History and Classical Studies

3.11.10.1 Location

Department of History and Classical Studies
Stephen Leacock Building, 7th floor
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada
Telephone: 514-398-2844
Fax: 514-398-7476
Email: graduate.history@mcgill.ca

3.11.10.2 About History and Classical Studies

The Department of History and Classical Studies has particular strengths in:

- Canadian history;
- British and European history;
- East Asian history;
- the history of medicine;
- the history of science;
and newer fields such as:

- the history of gender and sexuality;
- the history of the Atlantic and Indian Ocean worlds;
- global history.

The Department offers interdisciplinary options in European studies, developmental studies, and women’s studies at the M.A. level. Both M.A. and Ph.D. students can also write their thesis or research paper on the History of Medicine. The Department is composed of 39 full-time faculty members as well as a strong complement of visiting professors, faculty lecturers, and postdoctoral fellows. This array of dedicated teachers and scholars supports high-quality instruction and research across the periods of history and regions of the globe. Our professors have won many prizes for their books and articles, and their ongoing investigations are supported by the Social Sciences and Humanities Research Council of Canada (SSHRC), the FQRSC, CFI, the Killam Trusts, and the Mellon Foundation. The Department is home to a number of major collaborative research projects, all of which also include students. Among these are the Montreal History Group; the Indian Ocean World Centre (IOWC); Quelques arpents de neige, an environmental history group; and the French Atlantic History Group.

Classics was among the first disciplines taught at McGill College. Our students benefit from the resources of closely related disciplines and draw on the academic expertise of scholars from various backgrounds. Many awards and prizes are available for students who excel in the classroom, and both undergraduates and graduates can join professors on study tours and field projects. Students can also become members of the Classics Students Association and publish their work in the McGill Journal of Classical Studies, aptly titled Hirundo—Latin for “swallow,” like the martlets found on the McGill coat-of-arms, ever soaring in search of knowledge.

We offer prospective students the chance to study with leading scholars in a variety of fields.

Refer to the Department of History and Classical Studies website for detailed regulations and information.

Degrees in History
The M.A. (Non-Thesis) program is normally completed in three terms, or one calendar year (Fall, Winter, and Summer). Candidates for the M.A. degree follow an individual program approved by the Department. The M.A. in History offers advanced training in the scholarly discipline of history in a variety of fields. The McGill History degree carries international prestige and cachet and contributes meaningfully to success on the job market. Careers pursued by our graduates, aside from those who have sought and found places on the faculties of colleges and universities, have included positions in the area of public history at museums and other public institutions, in libraries and archives, in the diplomatic and other branches of the civil service, and in a variety of NGOs.

**section 3.11.10.5: Master of Arts (M.A.) History (Thesis) (45 credits)**

Students participate in courses and seminars that deepen their understanding of the problems, topics, and issues confronting professional historians. Preparation of a thesis provides an opportunity for the preparation of a sustained project under close supervision.

**section 3.11.10.6: Master of Arts (M.A.) History (Thesis): Development Studies (45 credits)**

The Development Studies Option (DSO) is a cross-disciplinary program offered as an option within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This option is for master's students specializing in international development. Students enter through one of the participating departments and must meet the Department of History's M.A. requirements. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

**section 3.11.10.7: Master of Arts (M.A.) History (Thesis): European Studies (45 credits)**

The European Studies Option (ESO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of History, Political Science, and Sociology, as well as the Faculty of Law. This option is for students interested in combining the approaches of history and political science to European studies, whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their thesis on a topic approved by the specific option's coordinating committee. The M.A. thesis must be on a topic relating to European studies, approved by the ESO coordinating committee.

**section 3.11.10.8: Master of Arts (M.A.) History (Thesis): Gender and Women's Studies (45 credits)**

This option provides students with cross-disciplinary specialization in feminist, women's, and gender studies. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their thesis on a topic approved by the specific option's coordinating committee. The thesis must be on a topic centrally related to gender and/or women's studies.

**section 3.11.10.9: Master of Arts (M.A.) History (Non-Thesis) (45 credits)**

Students participate in courses and seminars that deepen their understanding of the problems, topics, and issues confronting professional historians. The seminars, in particular, provide an opportunity to analyze primary sources under close supervision.

**section 3.11.10.10: Master of Arts (M.A.) History (Non-Thesis): Development Studies (45 credits)**

The Development Studies Option (DSO) is a cross-disciplinary program offered as an option within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This option is for master's students specializing in international development. Students enter through one of the participating departments and must meet the Department of History’s M.A. requirements. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their research paper on a topic approved by the DSO coordinating committee.

**section 3.11.10.11: Master of Arts (M.A.) History (Non-Thesis): European Studies (45 credits)**

The European Studies Option (ESO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of History, Political Science, and Sociology, as well as the Faculty of Law. This option is for students interested in combining the approaches of history and political science to European studies, whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their research paper on a topic approved by the ESO coordinating committee.

**section 3.11.10.12: Master of Arts (M.A.) History (Non-Thesis): Gender and Women Studies (45 credits)**

This option provides students with cross-disciplinary specialization in feminist, women's, and gender studies. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their research paper on a topic approved by the specific option's coordinating committee.
section 3.11.10.13: Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

The M.A. Degree in the History of Medicine does not have a thesis option. This non-thesis degree is normally completed in one year. Candidates for the M.A. degree follow an individual program approved by the Department. Students participate in courses and seminars that deepen their understanding of the problems, topics, and issues confronting professional historians. The curriculum is intended to provide students with a strong disciplinary competence in history and a distinctively interdisciplinary perspective. Candidates must have a background in either history (Honours B.A. in History, or equivalent) or a degree in one of the health professions.

section 3.11.10.14: Doctor of Philosophy (Ph.D.) History

The Ph.D. in History is a professional degree program that prepares students for participation in the academy as historians. They gain competence in historical methods and good control over at least three fields of study. The dissertation is a work of primary research that makes a significant contribution to knowledge. Candidates in the field of Medical History will prepare the major field for the comprehensive examination with a member of the Department of Social Studies of Medicine and the two minor fields with members of the Department of History and Classical Studies. The thesis will normally be directed by the director of the major field. In all other respects, the same rules will apply to candidates in this area as apply to other Ph.D. students in History.

Degrees in Classics

section 3.11.10.15: Master of Arts (M.A.) Classics (Thesis) (45 credits)

The M.A. in Classics offers advanced training in the scholarly discipline of classical studies in a variety of fields. The thesis program emphasizes proficiency both in technical areas of the discipline, especially Greek and Latin language, and in critical reading, writing, and research skills. The McGill M.A. in Classics is designed to prepare students to enter doctoral programs and, eventually, an academic career in any of the related fields of classical studies. Graduates have also pursued successful careers in teaching, law, museum science, and branches of civil service. This program can be completed in one year, though it is normally completed in two years.

section 3.11.10.16: Master of Arts (M.A.) Classics (Non-Thesis) (45 credits)

The M.A. in Classics offers advanced training in the scholarly discipline of classical studies in a variety of fields. The non-thesis program aims to develop proficiency both in technical areas of the discipline, especially Greek and Latin language, and in critical reading, writing, and research skills to prepare students to enter doctoral programs in any of the related fields of classical studies. This option is designed for students who need to strengthen their proficiency in ancient languages and other aspects of classical studies and places greater emphasis on graduate coursework. This option is normally completed in two years.

3.11.10.3 History and Classical Studies Admission Requirements and Application Procedures

3.11.10.3.1 Admission Requirements

A minimum cumulative grade point average (CGPA) of 3.3 on 4.0 is required, as well as a minimum TOEFL score of 86 on the Internet-based test (iBT), with each component score no less than 20.

Master in History

a. Normally, candidates are required to possess a B.A. (Honours) in History consisting of 60 credits in history. But students with other undergraduate history degrees (normally including serious research components) may be considered eligible.

b. A minimum CGPA of 3.3 out of 4.0 (B+) in your undergraduate degree is required.

Applicants not satisfying these conditions but otherwise deemed worthy of serious consideration will be asked to register in a Qualifying program in which they will undertake advanced undergraduate work.

Master in History – Development Studies Option

Students have the same admission requirements as above.

Master in History – European Studies Option

Students have the same admission requirements as above.

Master in History – Gender and Women's Studies Option

Students have the same admission requirements as above.

Master in History of Medicine

Candidates must have a background in either History—B.A. (Honours) or equivalent—or a degree in one of the health professions with some background in history. Candidates with a willingness to do preparatory work in history are also encouraged to apply.

Ph.D. in History

Normally, an M.A. in History (Students choosing the field of History of Medicine normally enter with an M.A. in History of Medicine).

Master in Classics
Candidates are required to have a B.A. (Honours) in Classics or equivalent.

**3.11.10.32 Application Procedures**

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

Refer to the Department of History and Classical Studies website for detailed information ([www.mcgill.ca/history/graduate](http://www.mcgill.ca/history/graduate)).

**3.11.10.33 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of History and Classical Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
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<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
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<tr>
<td>Winter Term:</td>
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<td>Winter Term:</td>
<td>N/A</td>
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<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** Applications for Winter or Summer term admission will not be considered.

**3.11.10.4 History and Classical Studies Faculty**

**Chair**

TBA

**Director**

TBA

**Emeritus Professors**

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.)

Carman I. Miller; B.A., B.Ed.(Acad.), M.A.(Dal.), Ph.D.(Lond.)

Desmond Morton; B.A.(R.M.C.), B.A., M.A.(Oxf.), Ph.D.(Lond.) (*Hiram Mills Emeritus Professor of History*)

Yuzo Ota; B.A., M.A., Ph.D.(Tokyo)

Albert Schachter; B.A.(McG.), D.Phil.(Oxf.) (*Hiram Mills Emeritus Professor of Classics*)

George Michael Woloch; B.A.(Yale), B.A., M.A.(Oxf.), Ph.D.(Johns Hop.) (*John McNaughton 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*)

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.) (*Leanor Segal Professor of Jewish Studies*) (joint apppt. with Jewish Studies)

Brian Lewis; B.A., M.A.(Oxf.), A.M., Ph.D.(Harv.)
## Professors

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) (*Canada Research Chair* (joint appt. with Social Studies of Medicine))

David J. Wright; B.A., M.A.(McG.), D.Phil.(Oxf.) (*Canada Research Chair* (joint appt. with Institute for Health and Social Policy))

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 E. Zucchi; B.A., M.A., Ph.D.(Tor.)

## Associate Professors

Malek Abisaab; B.A.(Lebanese Univ.), M.A.(CUNY), Ph.D.(Binghampton) (*joint appt. with Institute of Islamic Studies*)

Subho Basu; B.A., M.A.(VB), M.Phil.(Jawaharlal Nehru), Ph.D.(Camb.)

Paula Clarke; B.A.(Mem.), B.A.(Oxf.), M.A.(Tor.), Ph.D.(Lond.)

Brian Cowan; B.A.(Reed), M.A., Ph.D.(Princ.)

Catherine Desbarats; B.A.(Qu.), D.Phil.(Oxf.), Ph.D.(McG.)

Nicolas Dew; B.A., M.Sc., D.Phil.(Oxf.)

Elizabeth Elbourne; B.A., M.A.(Tor.), D.Phil.(Oxf.)

Michael P. Fronda; B.A.(Cornell), M.A., Ph.D.(Ohio St.)

Charles W. Gladhill; B.A.(Mich.), M.A.(Georgia South.), Ph.D.(Stan.)

Elsbeth Heaman; B.A., M.A.(McG.), Ph.D.(Tor.)

Lynn Kozak; B.A.(Col.), M.A.(Lond.), Ph.D.(Nott.)

James Krapfl; A.B.(Stan.), M.A.(CEU), Ph.D.(Calif.)

Catherine LeGrand; B.A.(Reed), M.A., Ph.D.(Stan.)

Lorenz Lüthi; Lic.Phil.I(Zürich), M.A., M.Phil., Ph.D.(Yale)

Leonard Moore; A.B., M.A., Ph.D.(Calif.)

Don Nerbas; B.A.(Winn.), M.A., Ph.D.(New Br.) (*Chair in Canadian-Scottish Studies*)

Jason Opal; B.A.(Cornell), 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.)

Jon Dylan Soske; B.A.(USC), M.A.(Calif., Berk.), Ph.D.(Tor.)

Daviken Studnicki-Gizbert; B.A.(Montr.), M.Phil., Ph.D.(Yale)

Griet Vankeerberghen; License(Louvain), Ph.D.(Princ.)

Gavin Walker; B.A., M.A.(Penn.), Ph.D.(Cornell) (*joint appt. with East Asian Studies*)

Faith Wallis; B.A., M.A.(McG.), Ph.D.(Tor.) (*joint appt. with Social Studies of Medicine*)

## Assistant Professors

Anastassios (Tassos) Anastassiadis; B.A., M.A.(Middlebury), Ph.D.(Sciences Po, Paris) (*Papachristidis Chair in Modern Greek Studies*)

Travis Bruce; B.A.(Port St.), M.A.(Poitiers), Ph.D.(Toulouse/W. Mich.)

Allan Downey; B.A.(Mercyhurst), M.A., Ph.D.(W. Laur.)

Shanon Fitzpatrick; B.A.(Col.), Ph.D.(Calif., Irvine)

Kristy Ironside; B.A., M.A.(Tor.), Ph.D.(Chic.)

Laura Madokoro; B.A.(Wat.), M.A.(Tor.), Ph.D.(Br. Col.)

Judith Szapor; B.A., M.A., Ph.D.(York)

Jeremy Tai; B.A.(NYU), M.A., Ph.D.(Calif.-Santa Cruz)

Darian Totten; B.A.(Chic.), M.A., Ph.D.(Stan.)
Assistant Professors
Heidi Wendt; B.A., M.A., Ph.D.(Brown) (joint appt. with School of Religious Studies)

Faculty Lecturers
Margaret Palczynski; B.Sc.(McG.), M.A.(C'dia)
Martin Sirois; B.A., M.A.(Montr.), M.A., Ph.D.(Princ.)

3.11.10.5 Master of Arts (M.A.) History (Thesis) (45 credits)

Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>HIST 696</td>
<td>9</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>HIST 697</td>
<td>12</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>HIST 698</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

12 credits at the 500, 600, or 700 level.
No more than 6 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.6 Master of Arts (M.A.) History (Thesis): Development Studies (45 credits)

The Development Studies Option is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of Anthropology, Economics, Geography, History, Political Science, and Sociology. The Department of History and Classical Studies offers the option as either a Thesis or a Non-Thesis program. Both programs are open to M.A. students specializing in development studies. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. For both the M.A. Thesis and the Non-Thesis programs, the M.A. thesis or research essay must be on a topic relating to development studies, approved by the DSO coordinating committee.

Thesis Courses (33 credits)

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<tr>
<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
<td>HIST 696</td>
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<tr>
<td>HIST 697</td>
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<td>HIST 698</td>
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Required Course (3 credits)

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>INTD 657</td>
<td>3</td>
<td>Development Studies Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

9 credits at the 500, 600, or 700 level selected as follows:
6 credits relating to developmental studies.
3 credits relating to the student's program of study.
No more than 3 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.7 Master of Arts (M.A.) History (Thesis): European Studies (45 credits)

Thesis Courses (33 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>HIST 696</td>
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<td>Thesis Research 1</td>
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<tr>
<td>HIST 697</td>
<td>12</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>HIST 698</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>
Required Courses (3 credits)
HIST 659 (3) Interdisciplinary Seminar in European Studies

Complementary Courses (9 credits)
9 credits at the 500 level or higher, selected as follows:
6 credits on European themes and issues;
No more than 3 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.8 Master of Arts (M.A.) History (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (33 credits)
HIST 696 (9) Thesis Research 1
HIST 697 (12) Thesis Research 2
HIST 698 (12) Thesis Research 3

Required Courses (3 credits)
WMST 601 (3) Feminist Theories and Methods

Complementary Courses (9 credits)
9 credits at the 500 level or higher, selected as follows:
3 credits on gender-related issues;
No more than 3 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.9 Master of Arts (M.A.) History (Non-Thesis) (45 credits)

Research Project (15 credits)
HIST 687 (9) M.A. Paper 1
HIST 688 (6) M.A. Paper 2

Required Courses (12 credits)
HIST 684 (3) Research Proposal
HIST 685 (3) Directed Research
HIST 686 (6) Bibliography Tutorial

Complementary Courses (18 credits)
18 credits at the 500, 600, or 700 level.
No more than 6 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.10 Master of Arts (M.A.) History (Non-Thesis): Development Studies (45 credits)

Research Project (15 credits)
HIST 687 (9) M.A. Paper 1
HIST 688  (6)  M.A. Paper 2

**Required Courses (15 credits)**

- HIST 684  (3)  Research Proposal
- HIST 685  (3)  Directed Research
- HIST 686  (6)  Bibliography Tutorial
- INTD 657  (3)  Development Studies Seminar

**Complementary Courses (15 credits)**

15 credits at the 500 level or higher selected as follows:
- 6 credits relating to development studies;
- 9 credits relating to the student's program of study.

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

**3.11.10.11 Master of Arts (M.A.) History (Non-Thesis): European Studies (45 credits)**

**Research Project (15 credits)**

- HIST 687  (9)  M.A. Paper 1
- HIST 688  (6)  M.A. Paper 2

**Required Courses (15 credits)**

- HIST 659  (3)  Interdisciplinary Seminar in European Studies
- HIST 684  (3)  Research Proposal
- HIST 685  (3)  Directed Research
- HIST 686  (6)  Bibliography Tutorial

**Complementary Courses (15 credits)**

15 credits at the 500 level or higher selected as follows:
- 6 credits on European themes and issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

**3.11.10.12 Master of Arts (M.A.) History (Non-Thesis): Gender and Women Studies (45 credits)**

**Research Project (15 credits)**

- HIST 687  (9)  M.A. Paper 1
- HIST 688  (6)  M.A. Paper 2

**Required Courses (15 credits)**

- HIST 684  (3)  Research Proposal
- HIST 685  (3)  Directed Research
- HIST 686  (6)  Bibliography Tutorial
- WMST 601  (3)  Feminist Theories and Methods
Complementary Courses (15 credits)
15 credits at the 500 level or higher selected as follows:
3 credits on gender-related issues;
No more than 3 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.13 Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

Research Project (15 credits)

HIST 687 (9)  M.A. Paper 1
HIST 688 (6)  M.A. Paper 2

Required Courses (12 credits)

HIST 684 (3)  Research Proposal
HIST 685 (3)  Directed Research
HIST 686 (6)  Bibliography Tutorial

Complementary Courses (18 credits)
18 credits at the 500, 600, or 700 level
6-12 credits in History of Medicine courses chosen from the following:

HIST 636 (3)  Medieval Medicine Seminar 1
HIST 637 (3)  Medieval Medicine Seminar 2
HIST 640 (3)  Modern Medicine Seminar 1
HIST 641 (3)  Modern Medicine Seminar 2
HSSM 604 (3)  History of Medicine

6-12 credits in History (non-Medicine) courses.
Up to 6 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.10.14 Doctor of Philosophy (Ph.D.) History

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

HIST 701 (3)  Doctoral Seminar
HIST 702 (0)  Comprehensive Examination - Major Field
HIST 703 (0)  Comprehensive Examination - First Minor Field
HIST 704 (0)  Comprehensive Examination - Second Minor Field

Complementary Courses
A maximum of 9 credits previously completed at the graduate level, whether at McGill or elsewhere. Courses must be at the 500, 600, or 700 level. Up to 6 credits may be taken in another department.

Language Requirement
Ph.D. candidates must offer one foreign language for examination purposes. Candidates may need a reading knowledge of such other languages as are required for research purposes in their major field. The Department expects that candidates will have successfully demonstrated competence in the one required language by the end of their Ph.D. 3 year.

3.11.10.15 Master of Arts (M.A.) Classics (Thesis) (45 credits)

Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CLAS 696</td>
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<td>M.A. Thesis Research 1</td>
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<tr>
<td>CLAS 697</td>
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<td>M.A. Thesis Research 2</td>
</tr>
<tr>
<td>CLAS 698</td>
<td>15</td>
<td>M.A. Thesis Research 3</td>
</tr>
</tbody>
</table>

Complementary Courses (18 credits)
18 credits of Classics or Classics-related courses at the graduate level (500 level or higher). A complete list of Classics and Classics-related courses is available on the Classical Studies website: http://www.mcgill.ca/classics/graduate-studies/courses/.

At least 6 credits of coursework must be language courses taught in Classical Studies (Ancient Greek, Latin, or Modern Greek) with the CLAS prefix.

Each candidate for the M.A. degree must demonstrate advanced proficiency in both Ancient Greek and Latin OR in Modern Greek by the completion of the M.A. program.

3.11.10.16 Master of Arts (M.A.) Classics (Non-Thesis) (45 credits)

The M.A. in Classics; Non-Thesis, offers advanced training in the scholarly discipline of classical studies in a variety of fields. The program aims to develop proficiency both in technical areas of the discipline, especially Greek and Latin language, and in critical reading, writing, and research skills, to prepare students to enter doctoral programs in any of the related fields of classical studies. This option is designed for students who need to strengthen their proficiency in ancient languages and other aspects of classical studies, and places greater emphasis on graduate coursework. This option is normally completed in two years.

Research Courses (18 credits)

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<tr>
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<td>M.A. Research Paper 1</td>
</tr>
<tr>
<td>CLAS 682</td>
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<td>CLAS 683</td>
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</tr>
<tr>
<td>CLAS 685D2</td>
<td>3</td>
<td>Proseminar</td>
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Complementary Courses (27 credits)
27 credits of 500-level or 600-level courses in Classics, Ancient History, or another classics-related discipline. A list of course that count for the complementary course requirement may be found on the Classical Studies website at http://www.mcgill.ca/classics/graduate-studies/courses.

A minimum of 12 credits of complementary courses must be ancient Greek or Latin courses (Note: CLAS 691 does not count as an Ancient Greek or Latin course).

A maximum of 6 credits of complementary courses may be taken outside the Department of History and Classical Studies, unless approved by the Classical Studies Committee.

3.11.11 Information Studies

3.11.11.1 Location

School of Information Studies
3661 Peel Street
3.11.11.2 About Information Studies

The School of Information Studies (SIS) is a dynamic teaching and research unit engaged in the education of information professionals and scholars. The School educates individuals who make a difference in the management and design of information resources, services, and systems, finding better ways to manage, organize, access, disseminate, use, and preserve information and recorded knowledge from a human-centred perspective. As the pioneer school of its kind in Canada, SIS has been offering programs at McGill since 1897, with continuous accreditation of professional programs by the American Library Association (ALA) since 1929.

The School offers programs at the graduate level, including a Master of Information Studies and Ph.D. in Information Studies. For more information about current program offerings, please visit the School's website at www.mcgill.ca/sis/programs.

Research at the School is conducted in the broad domain of human-information interaction (HII), which includes three research areas:

- human-computer interaction;
- information behaviour and services; and
- information and knowledge management.

Research projects address such topics as data mining, digital curation, information classification, information preservation, knowledge management, multisensory information, and user experience.

For complete information about the School of Information Studies, please see the School's website at www.mcgill.ca/sis.

**section 3.11.11.5: Master of Information Studies (M.I.St.) Information Studies (Non-Thesis) (48 credits)**

The Master of Information Studies is a non-thesis program, designed to prepare graduates for the broad field of information studies. The program is comprised of a set of required courses and additional courses from areas of interest including: library studies, knowledge management, information and computer technologies, and archival studies, among others. The program provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; promotes the appropriate use of technology in meeting information needs; promotes research in information studies; advocates the ideal of equal access to information; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organization, and society. After completion of the degree, students may choose to pursue a career in a related field or continue on to further academic studies. The program may be completed full-time in two years or on a part-time basis to a maximum of five years.

**section 3.11.11.6: Master of Information Studies (M.I.St.) Information Studies (Non-Thesis): Project (48 credits)**

The Master of Information Studies – Project is a non-thesis program with a major research project, designed to prepare graduates for the broad field of information studies. The program is comprised of a set of required courses, a research component, and additional courses from areas of interest including: library studies, knowledge management, information and computer technologies, and archival studies, among others. The program provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; promotes the appropriate use of technology in meeting information needs; advocates the ideal of equal access to information; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organization, and society. After completion of the degree, students may choose to pursue a career in a related field or continue on to further academic studies. The program may be completed full-time in two years or on a part-time basis within a maximum of five years.

**section 3.11.11.7: Doctor of Philosophy (Ph.D.) Information Studies**

The Ph.D. in Information Studies provides an opportunity for exceptional candidates to study interdisciplinary research topics at the doctoral level. The program offers a thorough grounding in both current theory and methods of research to ensure that students develop knowledge and critical awareness of relevant theories, principles, and methods in Information Studies and acquire the expertise to conduct and promote scholarly research in the context of information studies. The program begins with a set of common courses and proceeds to specialization through dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members. Students develop scholarly and innovative expertise in human-information interaction (HII) in one of three research areas: human-computer interaction; information behaviour and services; and information and knowledge management.

The program prepares graduates for a wide range of settings in research, teaching, and senior administrative positions, in Quebec, Canada, and internationally; contributes to the development of knowledge and to teaching/learning in information studies; and builds national and international visibility of information studies from a research perspective.
section 3.11.11.8: Graduate Certificate (Gr. Cert.) Digital Archives Management (15 credits)

The Graduate Certificate in Digital Archives Management program is designed to equip students and working professionals with specialized training to enrich their current portfolio or to prepare for work in the areas of digital archives, digital curation, and digital content management. Courses focus on principles and practices in archival studies, digital curation, strategies for digital preservation, and enterprise content management. The program may be completed within two academic terms (Fall/Winter) or to a maximum of three years. Both Fall and Winter entry to the program are offered.

section 3.11.11.9: Graduate Certificate (Gr. Cert.) Information Architecture and Design (15 credits)

The Graduate Certificate in Information Architecture and Design is designed to equip students and working professionals with specialized training to enrich their current portfolio or to prepare for work in public and private sectors as information architects and information designers. Courses focus on design and assessment of information systems, databases, websites, and interfaces. Techniques for data mining and issues related to information security are also covered. All courses are offered on-site at McGill University. The program may be completed within two academic semesters (Fall/Winter) or to a maximum of three years. Both Fall and Winter entry is offered.

section 3.11.11.10: Graduate Certificate (Gr. Cert.) Information and Knowledge Management (15 credits)

The Graduate Certificate in Information and Knowledge Management program is designed to equip students and working professionals with specialized training to enrich their current portfolio or to prepare for work in the areas of information and knowledge management. Courses focus on the information behaviour of individuals, networks, and organizations; the nature of tacit and explicit knowledge services; and strategies for identifying, capturing, organizing, storing, sharing, and using knowledge. The program may be completed within two academic terms (Fall/Winter) or to a maximum of three years. Both Fall and Winter entry to the program are offered.

section 3.11.11.11: Graduate Certificate (Gr. Cert.) Library and Information Studies (15 credits)

The Graduate Certificate in Library and Information Studies is a post-master's program designed to assist library and information professionals currently holding an American Library Association (ALA)-accredited (or equivalent) master's degree to update their qualifications for advanced responsibility. The program may be completed in one or two academic terms, or on a part-time basis to a maximum of five years.

3.11.11.3 Information Studies Admission Requirements and Application Procedures

311.11.3.1 Admission Requirements

Master of Information Studies (M.I.St.)

1. Applicants must have a bachelor's degree from a recognized university. The applicant must present evidence of academic achievement: a minimum standing equivalent to a “McGill” cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a grade point average (GPA) of 3.2 out of 4.0 for the last two full-time academic years if the overall CGPA is 2.8 or higher.

   Note: Courses in library and/or information studies taken before or as part of an undergraduate degree, or such courses taken in a school with a program not accredited by the American Library Association, cannot be accepted as credit toward the McGill M.I.St.

2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language (TOEFL) with a minimum score of 100 on the Internet-based test (iBT; or 600 on the paper-based test [PBT]), with a written score of at least 25 and a reading, speaking, and listening score not less than 20, or the International English Language Testing System (IELTS) with a minimum overall band score of 7.5. Applicants whose mother tongue is not English may be asked to demonstrate English-language competency beyond the submission of the TOEFL or IELTS scores. For more information about proof of proficiency, refer to the Admissions section of the School’s website.

Ph.D. in Information Studies

1. Applicants should normally have a master's degree in Library and Information Studies (or equivalent). Master's degrees in other fields will be considered in relation to the proposed research.

   An applicant with a master's degree in Library and Information Studies (or equivalent) will normally be admitted to Ph.D. 2.

   An applicant with a master's degree in another field may be considered for admission to Ph.D. 2, but may need to register for courses to upgrade background knowledge in library and information studies.

   An applicant who holds only a bachelor’s degree from McGill University or an approved institution in Information Studies (or equivalent) in exceptional circumstances may be admitted to Ph.D. 1.

   The applicant must present evidence of academic achievement: a minimum standing equivalent to a “McGill” cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a grade point average (GPA) of 3.2 out of 4.0 for the last two full-time academic years if the overall CGPA is 2.8 or higher.

2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language (TOEFL) with a minimum score of 100 on the Internet-based test (iBT; or 600 on the paper-based test [PBT]), with a written score of at least 25 and a
reading, speaking, and listening score not less than 20, or the International English Language Testing System (IELTS) with a minimum overall band score of 7.5. Applicants whose mother tongue is not English may be asked to demonstrate English-language competency beyond the submission of the TOEFL or IELTS scores. For more information about proof of proficiency, refer to the Admissions section of the School's website.

Graduate Certificate in Digital Archives Management; Graduate Certificate in Information and Knowledge Management; and Graduate Certificate in Information Architecture and Design

1. Applicants must have a bachelor's degree from a recognized university. The applicant must present evidence of academic achievement: a minimum standing equivalent to a “McGill” cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a grade point average (GPA) of 3.2 out of 4.0 for the last two full-time academic years if the overall CGPA is 2.8 or higher.
2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language (TOEFL) with a minimum score of 100 on the Internet-based test (iBT; or 600 on the paper-based test [PBT]), with a written score of at least 25 and a reading, speaking, and listening score not less than 20, or the International English Language Testing System (IELTS) with a minimum overall band score of 7.5. Applicants whose mother tongue is not English may be asked to demonstrate English language competency beyond the submission of the TOEFL or IELTS scores. For more information about proof of proficiency, refer to the Admissions section of the School's website.

Graduate Certificate in Library and Information Studies

1. Applicants should have a master's degree in Library and Information Studies from a program accredited by the American Library Association (or equivalent). Candidates will normally have at least three years' professional experience following completion of their master's degree.
2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language (TOEFL) with a minimum score of 100 on the Internet-based test (iBT; or 600 on the paper-based test [PBT]), with a written score of at least 25 and a reading, speaking, and listening score not less than 20, or the International English Language Testing System (IELTS) with a minimum overall band score of 7.5. Applicants whose mother tongue is not English may be asked to demonstrate English language competency beyond the submission of the TOEFL or IELTS scores. For more information about proof of proficiency, refer to the Admissions section of the School's website.

3.11.11.32 Application Procedures

Detailed graduate application procedures and McGill's uApply online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

3.11.11.32.1 Additional Requirements

The additional requirements for application are currently under review. For the latest information, please see the Admissions section of the School's website.

3.11.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Information Studies and may be revised at any time. Completed applications, including all supporting documentation (ex.: uploaded documents and references received from referees), are due by the appropriate deadline. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

For all applications, all supporting documentation (e.g. uploaded documents and references) must be submitted by February 15.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term</td>
<td></td>
</tr>
<tr>
<td>(Graduate Certificates only):</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Winter term applications are open exclusively for Graduate Certificate programs.

Admission to graduate studies is competitive; accordingly, late and/or incomplete application are considered only as time and space permit.

3.11.11.4 Information Studies Faculty

Director
Kimiz Dalkir
Professors
Jamshid Beheshti; B.A.(S. Fraser), M.L.S., Ph.D.(W.Ont.)
Colleen Cook; B.A., M.L.S.(Texas-Austin), M.A., Ph.D.(Texas A & M) (Trenholme Dean of Libraries, McGill University)

Associate Professors
Joan Bartlett; B.Sc., M.L.S., Ph.D.(Tor.)
France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Montr.)
Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C’dia)
Benjamin Fung; B.Sc., M.Sc., Ph.D.(S. Fraser)
Catherine Guastavino; B.Sc.(McC.), M.Sc.(Aix-Marseille), Ph.D.(Paris VI)
Elaine Ménard; B.A., M.A., M.S.I., Ph.D.(Montr.)
Karyn Moffatt; B.A.Sc., M.Sc., Ph.D.(Br.Col.)
Eun Park; B.A.(Pusan), M.L.I.S.(Ill.), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

Assistant Professors
M. Max Evans; B.S.(N. Ill.), M.I.St., Ph.D.(Tor.)
Ilja Frissen; M.A.(Maastricht), Ph.D.(Tilburg)
Charles-Antoine Julien; B.Eng., M.Sc.(Montr.), Ph.D.(McG.)

Associate Members
Gordon Burr; B.A., M.L.I.S.(McG.) (Senior Archivist, Records Management, McGill University Archives)
Pierre Pluye; M.D.(Toulouse), M.Sc., Ph.D.(Montr.) (Family Medicine, McGill University)
Richard Virr; B.A.(Tulane), M.A.(Qu.), Ph.D.(McG.) (Curator of Manuscripts, Rare Books and Special Collections Division, McGill Libraries)

Affiliate Members
Charles Cole; B.A., M.L.I.S.(McG.), Ph.D.(Sheff.)
Farkhund Iqbal; B.Sc., B.Sc.(Peshawar), M.Ap.Comp.Sc., Ph.D.(C’dia)

Sessional Lecturers
Maxime Beaulieu; B.A., M.B.S.I.(Montr.), Ph.D.(UQAM)
Svetlana Kochkina; B.A., M.A.(St. Petersburg St.), M.L.I.S.(McG.)
Lidia Kruk; B.A.(C’dia), M.L.I.S.(McG.)
Isabelle Lamoureux; M.L.I.S.(McG.)
Geoffrey Little; B.A., M.L.I.S.(Tor.)
Daniela Oliveira; B.(Librarianship)(São Paulo), M.L.I.S.(McG.)
Anton Stiglic; B.Sc., M.Sc.(Montr.), M.B.A.(Sher.)

3.11.11.5 Master of Information Studies (M.I.St.) Information Studies (Non-Thesis) (48 credits)

The Master of Information Studies, Non-Thesis is a 48-credit program. The program is designed to prepare graduates for the broad field of information studies. It provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; advocates the ideal of equal access to information; promotes the appropriate use of technology in meeting information needs; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organizations, and society.

Required Courses (15 credits)

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<th>Course</th>
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<td>Integrating Research and Practice</td>
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<td>GLIS 607</td>
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<td>Organization of Information</td>
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<td>GLIS 617</td>
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<td>GLIS 608</td>
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<td>Metadata &amp; Access</td>
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</tr>
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<td>(3)</td>
<td>History of Books and Printing</td>
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<td>GLIS 613</td>
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<td>Library and Archival History</td>
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<td>Humanities and Social Science Information</td>
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<td>GLIS 671</td>
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<td>GLIS 672</td>
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<tr>
<td>GLIS 673</td>
<td>(3)</td>
<td>Bioinformatics Resources</td>
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</table>
Elective Courses (0-12 credits)

0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

Elective courses must be approved by the student's adviser and the Graduate Program Director.

3.11.11.6 Master of Information Studies (M.I.St.) Information Studies (Non-Thesis): Project (48 credits)

The Master of Information Studies; Non-Thesis - Project is a 48-credit program, with a research project component of 18 credits. The program is designed to prepare graduates for the broad field of information studies. It provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; advocates the ideal of equal access to information; promotes the appropriate use of technology in meeting information needs; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organizations, and society.

Required Courses (30 credits)

GLIS 601 (3) Foundations of Information Studies
GLIS 602 (3) Integrating Research and Practice
GLIS 607 (3) Organization of Information
GLIS 617 (3) Information System Design
GLIS 619 (3) Information Behaviour and Resources

Research Courses

GLIS 603 (6) Research Project 1
GLIS 604 (3) Research Project 2
GLIS 647 (6) Research Project 3

Complementary Courses (6-18 credits)

3 credits from the following Research Methods courses:

EDEM 690 (3) Research Methods: Theory and Practice
EDPE 605 (3) Research Methods
GLIS 611 (3) Research Principles and Analysis
SOCI 504 (3) Quantitative Methods 1
SOCI 600 (3) Qualitative Research Methods 1
SOCI 601 (3) Qualitative Research Methods 2

And 3-15 credits from the following:

GLIS 608 (3) Classification and Cataloguing
GLIS 609 (3) Metadata & Access
GLIS 611 (3) Research Principles and Analysis
GLIS 612 (3) History of Books and Printing
<table>
<thead>
<tr>
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<tr>
<td>GLIS 636</td>
<td>(3)</td>
<td>Government Information</td>
</tr>
<tr>
<td>GLIS 637</td>
<td>(3)</td>
<td>Scientific &amp; Technical Information</td>
</tr>
<tr>
<td>GLIS 638</td>
<td>(3)</td>
<td>Business Information</td>
</tr>
<tr>
<td>GLIS 639</td>
<td>(3)</td>
<td>Introduction to Museology</td>
</tr>
<tr>
<td>GLIS 641</td>
<td>(3)</td>
<td>Archival Description and Access</td>
</tr>
<tr>
<td>GLIS 642</td>
<td>(3)</td>
<td>Preservation Management</td>
</tr>
<tr>
<td>GLIS 644</td>
<td>(3)</td>
<td>Descriptive Bibliography</td>
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<tr>
<td>GLIS 645</td>
<td>(3)</td>
<td>Archival Principles and Practice</td>
</tr>
<tr>
<td>GLIS 649</td>
<td>(3)</td>
<td>Digital Curation</td>
</tr>
<tr>
<td>GLIS 650</td>
<td>(3)</td>
<td>Digital Libraries</td>
</tr>
<tr>
<td>GLIS 651</td>
<td>(3)</td>
<td>Humanities and Social Science Information</td>
</tr>
<tr>
<td>GLIS 655</td>
<td>(3)</td>
<td>Language and Information</td>
</tr>
<tr>
<td>GLIS 656</td>
<td>(3)</td>
<td>Abstracting and Indexing</td>
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<td>(3)</td>
<td>Database Design &amp; Development</td>
</tr>
<tr>
<td>GLIS 660</td>
<td>(3)</td>
<td>Enterprise Content Management</td>
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<tr>
<td>GLIS 661</td>
<td>(3)</td>
<td>Knowledge Management</td>
</tr>
<tr>
<td>GLIS 662</td>
<td>(3)</td>
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<tr>
<td>GLIS 663</td>
<td>(3)</td>
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<tr>
<td>GLIS 665</td>
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<td>GLIS 671</td>
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<td>Health Sciences Information</td>
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<td>GLIS 672</td>
<td>(3)</td>
<td>Law Information</td>
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<td>GLIS 673</td>
<td>(3)</td>
<td>Bioinformatics Resources</td>
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<tr>
<td>GLIS 679</td>
<td>(3)</td>
<td>Information Literacy</td>
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<tr>
<td>GLIS 689</td>
<td>(3)</td>
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<td>GLIS 692</td>
<td>(3)</td>
<td>Special Topics 2</td>
</tr>
<tr>
<td>GLIS 699</td>
<td>(3)</td>
<td>Practicum</td>
</tr>
</tbody>
</table>

**Elective Courses (0-12 credits)**

- 0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.
Elective courses must be approved by the student's adviser and the Graduate Program Director.

### 3.11.11.7 Doctor of Philosophy (Ph.D.) Information Studies

The Ph.D. program provides an opportunity to study interdisciplinary research topics within the field of library and information studies at the doctoral level. Students develop scholarly and innovative expertise in one of the four research areas within information studies: a) information-seeking behaviour; b) human-computer interaction; c) information resources in context; d) knowledge management and representation, as well as an awareness of the inter-relatedness of these areas. Students begin with a set of common core courses and proceed to specialization through advanced coursework and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members.

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses (12 credits)

Note: GLIS 701 is normally taken in the second year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 701</td>
<td>(0)</td>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>GLIS 702</td>
<td>(3)</td>
<td>Seminar in Information Studies</td>
</tr>
<tr>
<td>GLIS 703</td>
<td>(3)</td>
<td>Research Paradigms in Information Studies</td>
</tr>
<tr>
<td>GLIS 704</td>
<td>(3)</td>
<td>Research Design in Information Studies</td>
</tr>
<tr>
<td>GLIS 705</td>
<td>(3)</td>
<td>Readings in Information Studies</td>
</tr>
</tbody>
</table>

Students may also be required to take additional courses to prepare them for their research.

### 3.11.11.8 Graduate Certificate (Gr. Cert.) Digital Archives Management (15 credits)

This program is intended to prepare students to work in the area of digital archives. The graduate courses in the program will focus on principles of organization of information, practices in archival studies, and strategies for digital curation and enterprise content management. This is an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

#### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 607</td>
<td>(3)</td>
<td>Organization of Information</td>
</tr>
<tr>
<td>GLIS 649</td>
<td>(3)</td>
<td>Digital Curation</td>
</tr>
</tbody>
</table>

#### Complementary Courses (9 credits)

chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 609</td>
<td>(3)</td>
<td>Metadata &amp; Access</td>
</tr>
<tr>
<td>GLIS 633</td>
<td>(3)</td>
<td>Multimedia Systems</td>
</tr>
<tr>
<td>GLIS 641</td>
<td>(3)</td>
<td>Archival Description and Access</td>
</tr>
<tr>
<td>GLIS 642</td>
<td>(3)</td>
<td>Preservation Management</td>
</tr>
<tr>
<td>GLIS 645</td>
<td>(3)</td>
<td>Archival Principles and Practice</td>
</tr>
<tr>
<td>GLIS 657</td>
<td>(3)</td>
<td>Database Design &amp; Development</td>
</tr>
<tr>
<td>GLIS 660</td>
<td>(3)</td>
<td>Enterprise Content Management</td>
</tr>
</tbody>
</table>

### 3.11.11.9 Graduate Certificate (Gr. Cert.) Information Architecture and Design (15 credits)

The Graduate Certificate in Information Architecture and Design is intended to prepare students to work as information architects and designers. The graduate courses in the program will prepare students to design and assess information systems (text, multimedia), databases, websites, and interfaces. Techniques for data mining and issues related to information security are also covered. This is an entry-level graduate program that may lead to another certificate or to the M.I.St. (Master of Information Studies).
Required Course (6 credits)

GLIS 617  (3)  Information System Design  
GLIS 625  (3)  Information Architecture  

Complementary Courses (9 credits)

GLIS 616  (3)  Information Retrieval  
GLIS 626  (3)  Usability Analysis and Assessment  
GLIS 627  (3)  User-Centered Design  
GLIS 629  (3)  Information Security  
GLIS 630  (3)  Data Mining  
GLIS 633  (3)  Multimedia Systems  
GLIS 634  (3)  Web System Design and Management  
GLIS 657  (3)  Database Design & Development  

3.11.11.10 Graduate Certificate (Gr. Cert.) Information and Knowledge Management (15 credits)

This program is intended to prepare students to work as information and knowledge managers in a variety of sectors. The graduate courses in the program will focus on the information behavior of individuals, networks and organizations, and the nature of tacit and explicit knowledge services and strategies for identifying, capturing, organizing, storing, sharing, and using knowledge throughout the IM/KM lifecycle in order to learn and improve. Tools and techniques for codifying knowledge and facilitating collaboration in networks are also covered. This is an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

Required Courses (6 credits)

GLIS 619  (3)  Information Behaviour and Resources  
GLIS 661  (3)  Knowledge Management  

Complementary Courses (9 credits)

chosen from the following:

GLIS 607  (3)  Organization of Information  
GLIS 620  (3)  Managing Information Organizations  
GLIS 662  (3)  Intellectual Capital  
GLIS 663  (3)  Knowledge Taxonomies  
GLIS 664  (3)  Knowledge Networks  
GLIS 665  (3)  Competitive Intelligence  

3.11.11.11 Graduate Certificate (Gr. Cert.) Library and Information Studies (15 credits)

Complementary Courses

9-15 credits, three to five GLIS courses chosen in consultation with the student's adviser with the exception of the following courses:

GLIS 647  (6)  Research Project 3  
GLIS 689  (3)  Selected Topics  
GLIS 695  (6)  Research Paper 1  
GLIS 696D1  (6)  Research Paper 2  
GLIS 696D2  (6)  Research Paper 2
Note: students who wish to register for:
GLIS 694 (3) Certificate Project

must first have their research proposal approved by the Committee on Student Standing and Academic Affairs.

0-6 credits of non-GLIS courses with a maximum of 3 credits from outside McGill. All such courses must be at a graduate level and receive prior approval of the student's adviser(s) and the School's Director.

3.11.12 International Development

3.11.12.1 Location

Institute for the Study of International Development (ISID)
Peterson Hall, Room 126
3460 McTavish Street
Montreal QC H3A 0E6
Canada
Telephone: 514-398-3507
Fax: 514-398-8432
Email: info.isid@mcgill.ca
Website: www.mcgill.ca/isid

Administration

Sonia Laszlo – Director
Iain Blair – Administrative Officer
   Email: iain.blair@mcgill.ca
Sherryl Ramsahai – Administrative Coordinator
   Email: sherryl.ramsahai@mcgill.ca
Lisa Stanischewski – Student Affairs Adviser
   Email: lisa.stanischewski@mcgill.ca
Kirsty McKinnon – Student Affairs Coordinator
   Email: kirsty.mckinnon@mcgill.ca

3.11.12.2 About the Institute for the Study of International Development

ISID is an interdisciplinary institute in the Faculty of Arts with over 40 members from various faculties. It also works with an international community of scholars, development groups, and the public. Interdisciplinary research sponsored by ISID revolves around three themes: poverty and inequality, governance and society; and environment and sustainability. It organizes seminars and conferences on development issues related to these themes.

Graduate students can register in the Development Studies Option (DSO), a cross-disciplinary M.A. program in which six departments participate:

- section 3.11.1: Anthropology
- section 3.11.6: Economics
- section 3.11.9: Geography
- section 3.11.10: History and Classical Studies
- section 3.11.19: Political Science
- section 3.11.25: Sociology

Further information about this option is available from each of these departments, as well as on the ISID website.
3.11.12.3 International Development Admission Requirements and Application Procedures

3.11.12.3.1 Admission Requirements

Students will only be considered for the Development Studies Option (DSO) once they have been accepted into a master's program in one of the six participating departments (Anthropology, Economics, Geography, History, Political Science, and Sociology) at McGill.

3.11.12.3.2 Application Procedures

Students applying through a participating department must indicate in their application that they want to be considered for the DSO. Final approval on admission to the DSO will be made once the files of successful departmental applicants have been received at ISID.

3.11.12.3.3 Application Dates and Deadlines

The DSO is a cross-disciplinary program. Please see the application deadlines for the master's program in one of the six participating departments:

- section 3.11.1: Anthropology
- section 3.11.6: Economics
- section 3.11.9: Geography
- section 3.11.10: History and Classical Studies
- section 3.11.19: Political Science
- section 3.11.25: Sociology

Departmental contact info is also available at www.mcgill.ca/gps/contact/graduate-program.

3.11.13 Islamic Studies

3.11.13.1 Location

Institute of Islamic Studies
Morrice Hall, Room 319
3485 McTavish Street
Montreal QC H3A 0E1
Canada
Telephone: 514-398-6077
Fax: 514-398-6731
Email: info.islamics@mcgill.ca
Website: www.mcgill.ca/islamicstudies

3.11.13.2 About Islamic Studies

Opportunities for research are wide and varied, reflecting the interests of both the faculty and students. Students may choose a specialization from the following options:

- Arabic Literatures;
- Arab American/Arab Canadian Literatures;
- Persian Literature;
- Urdu Literature;
- South-Asian Literature;
- Islamic Theology;
- Islamic Philosophy;
- Science in Islamic Societies;
- Islamic History;
- Safavid History;
- Shi‘i Studies;
- History of the Modern Middle East;
- Anthropology and History of Modern Iran;
- Islam and Politics;
- Islam in Africa;
- Islamic Law;
- Ottoman and Turkish Studies;
Women and Gender in Islamic Societies.

Students have the opportunity to be involved in a number of cutting-edge research projects.

The degrees and specializations offered at the Institute are:

- M.A. in Islamic Studies (Thesis);
- M.A. in Islamic Studies (Thesis) with Option in Gender and Women’s Studies;
- Ph.D. in Islamic Studies;
- Ph.D. in Islamic Studies with Option in Gender and Women’s Studies.

The Islamic Studies Library is especially strong in its reference materials and periodical holdings for Islamic regions. The collection, one of the largest in North America, contains over 150,000 volumes in principal European languages as well as in Arabic, Persian, Turkish, Urdu, and other non-European languages.

section 3.11.13.5: Master of Arts (M.A.) Islamic Studies (Thesis) (45 credits)

Students pursuing the M.A. in Islamic Studies at the Institute normally have an undergraduate specialization in the Humanities or Social Sciences, preferably with a major in Islamic Studies or Middle Eastern Studies. Knowledge of Arabic or Persian at the first-year level is an asset. The atmosphere at the Institute is strong internationally and the excellent student-teacher ratio is conducive to a high degree of interaction. Subsequent career paths include teaching at the secondary and post-secondary levels, working for NGOs, government agencies, or companies doing business in Islamic countries, and further graduate study in this field.

section 3.11.13.6: Master of Arts (M.A.) Islamic Studies (Thesis): Gender and Women's Studies (45 credits)

This option is an interdisciplinary program for students who wish to specialize in Islamic Studies and earn 6 credits of approved coursework focusing on gender and women’s studies, and issues in feminist research and methods. Students pursuing the degree at the Institute normally have an undergraduate specialization in the Humanities or Social Sciences, preferably with a major in Islamic Studies or Middle Eastern Studies. Knowledge of Arabic or Persian at the first-year level is an asset. The atmosphere at the Institute is strong internationally and the excellent student-teacher ratio is conducive to a high degree of interaction. Subsequent career paths include teaching at the secondary and post-secondary levels, working for NGOs, government agencies, or companies doing business in Islamic countries, and further graduate study in this field.

section 3.11.13.7: Doctor of Philosophy (Ph.D.) Islamic Studies

Students pursuing the Ph.D. in Islamic Studies at the Institute normally have a graduate specialization in the Humanities or Social Sciences, preferably in Islamic Studies or Middle Eastern Studies. Knowledge of Arabic or Persian at the second-year level is an asset. The atmosphere at the Institute is strong internationally and the excellent student-teacher ratio is conducive to a high degree of interaction. Our Institute has been extremely successful in placing its Ph.D. graduates in top-ranking academic jobs in North America. Institute alumni now hold positions at Harvard, Yale, and Princeton, as well as at leading Canadian universities. Our graduates help to ensure that a plurality of approaches to Islamic civilization is available to the students of today and tomorrow.

section 3.11.13.8: Doctor of Philosophy (Ph.D.) Islamic Studies: Gender and Women's Studies

This option is an interdisciplinary program for students who wish to specialize in Islamic Studies and earn 9 credits of approved coursework focusing on gender and women’s studies, and issues in feminist research and methods. The student’s Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women’s studies. Students pursuing the Ph.D. in Islamic Studies at the Institute normally have a graduate specialization in the Humanities or Social Sciences, preferably in Islamic Studies or Middle Eastern Studies. Knowledge of Arabic or Persian at the second-year level is an asset. The atmosphere at the Institute is strong internationally and the excellent student-teacher ratio is conducive to a high degree of interaction. Our Institute has been extremely successful in placing its Ph.D. graduates in top-ranking academic jobs in North America. Institute alumni now hold positions at Harvard, Yale, and Princeton, as well as at leading Canadian universities. Our graduates help to ensure that a plurality of approaches to Islamic civilization is available to the students of today and tomorrow.

3.11.13.3 Islamic Studies Admission Requirements and Application Procedures

3.11.13.3.1 Admission Requirements

Applicants must have a degree (B.A. or M.A.) from a recognized university, with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 (or equivalent), OR a grade point average (GPA) of 3.2 out of 4.0 in the last two years of full-time studies, according to Canadian standards. The degree should be in the Humanities or Social Sciences, preferably in Islamic or Middle Eastern Studies.

Applicants to graduate studies whose mother tongue is not English should refer to the Graduate and Postdoctoral Studies website at www.mcgill.ca/gradapplicants/international/apply/proficiency for more information.
3.11.132 Application Procedures

McGill's online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.1321 Additional Requirements

The items and clarifications below are additional requirements set by this department:

• Reference Letters – three letters required for Ph.D. applicants
• Writing Sample – optional for M.A. applicants; required for Ph.D. applicants; a copy of entire master's thesis, or completed chapters of master's thesis, or (in cases where these are not available) two substantial research papers
• Knowledge of Arabic or Persian is an asset, as follows: one year of language training for M.A. applicants; two years for Ph.D. applicants
• Other additional documents and questions, as itemized and explained on the departmental website for Prospective Students at www.mcgill.ca/islamicstudies/graduate-studies

3.11.1333 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Institute of Islamic Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the Islamic Studies website.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications will not be considered.

3.11.134 World Islamic and Middle East Studies Faculty

Director
Robert Wisnovsky

Emeritus and Retired Professors

Sajida S. Alvi; B.A., M.A., Ph.D.(Punj.) (*emeritus*)
Issa J. Boullata; Ph.D.(Lond.) (*emeritus*)
Hermann A. Landolt; Dipl.(Sorbonne), Ph.D.(Basel) (*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*)

Professors

Michelle L. Hartman; B.A.(Col.), D.Phil.(Oxf.)
F. Jamil Ragep; B.A., M.A.(Mich.), Ph.D.(Harv.) (*Canada Research Chair*)
Robert Wisnovsky; B.A.(Yale), M.A., Ph.D.(Princ.) (*James McGill Professor*)

Associate Professors

Malek H. Abisaab; B.A.(Lebanese Univ.), M.A.(CUNY), Ph.D.(Binghamton) (*joint appt. with History*)
Prashant Keshavmurthy; B.A.(Jawaharlal Nehru), M.A.(Delhi), Ph.D.(Col.)
Setrag Manoukian; B.A.(Venice), M.A., Ph.D.(Mich.) (*joint appt. with Anthropology*)
Khalid M. Medani; B.A.(Brown), M.A.(G’town), M.A., Ph.D.(Calif., Berk.) (*joint appt. with Political Science*)
Associate Professors

Laila Parsons; B.A.(Exe.), D.Phil.(Oxf.) (joint appt. with History)

Assistant Professors

Aslihan Gürbüzül; B.A., M.A.(Bilkent), Ph.D.(Harv.)
Ahmed Fekry Ibrahim; B.A.(al-Azhar), M.A.(Amer. Univ. Cairo), Ph.D.(G'town)
Pasha M. Khan; B.A.(Tor.), M.A., Ph.D.(Col.) (Chair in Urdu Language and Culture)

Senior Faculty Lecturers

Shokry Gohar; B.A.(Cairo), M.A.(C'dia)
Pouneh Shabani-Jadidi; B.A., M.S., Ph.D.(Azad), Ph.D.(Ott.)

Faculty Lecturer

David Nancekivelll; B.A., M.A.(Laval)

3.11.13.5 Master of Arts (M.A.) Islamic Studies (Thesis) (45 credits)

Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 697</td>
<td>6</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>ISLA 698</td>
<td>6</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>ISLA 699</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 603</td>
<td>3</td>
<td>Introductory: Research Materials - Islamic Studies</td>
</tr>
</tbody>
</table>

Complementary Courses (18 credits)

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, and Political Science) can count toward the coursework requirements in the same way as ISLA courses.

With permission of the Institute, up to 6 credits from other departments at McGill or other educational institutions can be used.

3 credit seminar course at the 600 or 700 level.
15 credits of ISLA courses at the 500, 600, or 700 level.

Language Requirement

Students must demonstrate proficiency in Arabic or Persian at the second-year level as evidenced by completion of ISLA 522 or ISLA 542, respectively, or by an examination administered by the Institute.

Note that the courses taken to fulfill the second-year-level requirement will not be credited towards the course requirements.

3.11.13.6 Master of Arts (M.A.) Islamic Studies (Thesis): Gender and Women’s Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet degree requirements in Islamic Studies (and other participating departments and faculties) who wish to earn 6 credits of approved coursework focusing on gender and women’s studies, and issues in feminist research and methods. The student’s master’s thesis must be on a topic centrally relating to issues of gender or women’s studies.

Thesis (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 697</td>
<td>6</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>ISLA 698</td>
<td>6</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>ISLA 699</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>
Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 603</td>
<td>3</td>
<td>Introductory: Research Materials - Islamic Studies</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

Complementary Courses (15 credits)

3 credit of a seminar course at the 600 or 700 level.

3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

or a 3-credit course, at the 500 level or higher, in gender/women’s issues.

9 credits of ISLA courses at the 500 level or higher.

With permission of the Institute, up to 3 credits of these 9 credits of Complementary Courses may be chosen from departments at McGill or other educational institutions.

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

Language Requirement

Students must demonstrate proficiency in Arabic or Persian at the second-year level as evidenced by completion of ISLA 522 or ISLA 542D, respectively, or by an examination administered by the Institute.

Note that the courses taken to fulfill the second-year level requirements will not be credited towards the course requirements.

3.11.13.7 Doctor of Philosophy (Ph.D.) Islamic Studies

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 603</td>
<td>3</td>
<td>Introductory: Research Materials - Islamic Studies</td>
</tr>
<tr>
<td>ISLA 701</td>
<td>0</td>
<td>Comprehensive Examination</td>
</tr>
</tbody>
</table>

Complementary Courses (27 credits)

27 credits of courses at the 500 level or higher, including 6 credits at the 600 or 700 level of seminars offered by the Institute of Islamic Studies.

* Note: For the three-year-level language requirement, either, ISLA 521D (9 credits) or ISLA 541D (6 credits) will not count toward the 27 complementary credits.

With the permission of the Institute, up to 6 credits could be taken in other departments at McGill or other institutions.

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

To avoid over-specialization, a maximum of 9 credits of content courses (i.e., courses that are not primarily devoted to language instruction) can be taken with a single Institute professor.

Language Requirements

All Ph.D. students are required to have completed three years of Arabic language or Persian language study at the IIS. Students who do not take the third level of Arabic at the Institute may demonstrate their competence by taking a proficiency examination set by the academic staff of the IIS.

In addition to Arabic or Persian, all Ph.D. students are required to have completed the equivalent of two years of language study at the IIS of another Islamic language. They may demonstrate competence in this language by taking a proficiency examination set by the academic staff of the IIS. Students are, of course, responsible for whatever higher levels are required for their research.
In addition to English, reading knowledge of one non-Islamic language (usually European) at a level of scholarly competence will be required for the Ph.D. Students must demonstrate their competence in the non-Islamic (usually European) research language by passing the Language Proficiency Examination administered by the Institute.

### 3.11.13.8 Doctor of Philosophy (Ph.D.) Islamic Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Islamic Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (9 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 603</td>
<td>3</td>
<td>Introductory: Research Materials - Islamic Studies</td>
</tr>
<tr>
<td>ISLA 701</td>
<td>0</td>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**

21 credits of courses at the 500 level or higher, including 6 credits at the 600 or 700 level of seminars offered by the Institute of Islamic Studies (IIS) AND an additional 3 credits in a course with a substantive focus on women and/or gender.

* Note: For the three-year-level language requirement, either, ISLA 521D (9 credits) or ISLA 541D (6 credits) will not count toward the 21 complementary credits.

With the permission of the Institute, up to 6 credits could be taken in other departments at McGill or other institutions.

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

To avoid over-specialization, a maximum of 9 credits of content courses (i.e., courses that are not primarily devoted to language instruction can be taken with a single Institute professor.

**Language Requirements**

All Ph.D. students are required to have completed three years of Arabic language or Persian language study at the IIS. Students who do not take the third level of Arabic or Persian at the Institute may demonstrate their competence by taking a proficiency examination set by the academic staff of the IIS.

In addition to Arabic or Persian, all Ph.D. students are required to have completed the equivalent of two years of language study at the IIS of another Islamic language. They may demonstrate competence in this language by taking a proficiency examination set by the academic staff of the IIS. Students are, of course, responsible for whatever higher levels are required for their research.

In addition to English, reading knowledge of one non-Islamic research language (usually European) at a level of scholarly competence will be required for the Ph.D. Students must demonstrate their competence in the non-Islamic (usually European) research language by passing the Language Proficiency Examination administered by the Institute.

### 3.11.14 Jewish Studies

#### 3.11.14.1 Location

Department of Jewish Studies  
855 Sherbrooke West, Leacock Building, 7th floor  
Montreal QC H3A 2T7  
Canada  
Telephone: 514-398-2844  
Website: [www.mcgill.ca/jewishstudies](http://www.mcgill.ca/jewishstudies)
3.11.14.2 About Jewish Studies

The Department of Jewish Studies offers an interdisciplinary approach to the study of Judaica. It welcomes students interested in deepening their knowledge of Jewish history and Jewish texts. Students have the choice of a thesis or non-thesis M.A. in Jewish Studies and may choose to complete the thesis M.A. with a stream in the History of the Jewish Interpretation of the Bible. An ad hoc Ph.D. is also available. We have particular research and teaching strengths in the following areas: Hebrew Bible and its interpretation; rabbinics and codes; medieval and modern Jewish thought; Eastern European Jewish history; Jewish literature (Hebrew, Yiddish, English); and contemporary North American Jewish life. These areas are broadly construed to accommodate the range of research interests in the Department. Students develop close relationships with their supervisors and benefit from the diverse expertise available in our Department and in the University at large.

While the thesis option is designed for students undertaking advanced research in one of the areas above, the non-thesis option offers a generalist degree in Jewish studies.

section 3.11.14.5: Master of Arts (M.A.) Jewish Studies (Thesis) (45 credits)

This option is aimed at students who have acquired a rich background in Jewish studies through their B.A. and who are now ready to focus their study on one period and/or discipline within the broad field of Jewish civilizational studies. Students choosing Eastern European studies, Jewish thought, or Hebrew literature must enter the program with a good command of either Hebrew or Yiddish according to their chosen specialization.

Students may also choose to complete the M.A. (Thesis) program with a stream in the History of the Jewish Interpretation of the Bible. This stream is aimed at students who have acquired a rich background in Bible and Jewish studies through their B.A. and who now wish to study the Bible and its interpretation within Jewish circles at an advanced level. Students choosing this path must enter the program with a good command of Hebrew.

The degree is normally completed within two years. Subsequent career paths are varied, but could include work in Jewish communal agencies, Jewish schools, Jewish foundations, the rabbinate, or further graduate study in a related field.

section 3.11.14.6: Master of Arts (M.A.) Jewish Studies (Non-Thesis) (45 credits)

This option is aimed at students who have acquired some background in Jewish studies through their B.A. and who wish to add to their knowledge without having to concentrate on one period or discipline within the broad field of Jewish civilizational studies. Students may take courses in related disciplines outside of Jewish Studies if appropriate. The degree is normally completed within two years. Students must demonstrate good command of Yiddish or Hebrew prior to graduation. Subsequent career paths are varied, but could include work in Jewish communal agencies, Jewish schools, Jewish foundations, the rabbinate, or further graduate study in a related field.

Ph.D. in Jewish Studies

This is an ad hoc program. Please contact the Department for further information on this option.

3.11.14.3 Jewish Studies Admission Requirements and Application Procedures

311.143.1 Admission Requirements

Ideally, applicants would have completed a B.A. in Jewish Studies. If an applicant is otherwise deemed acceptable, it is possible to be admitted to a Qualifying year. Students seeking admission to the History of the Jewish Interpretation of the Bible stream must demonstrate competence in Hebrew prior to beginning the program.

In addition to the appropriate references, transcripts, and examination scores, applicants should send samples of their academic work in their field of interest. Personal interviews are strongly recommended.

311.143.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

311.143.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Proposal
- Curriculum Vitae
- Written Work

311.143.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Jewish Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.
<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 3.11.14.4 Jewish Studies Faculty

#### Chair and Graduate Program Director

Yael Halevi-Wise

#### Undergraduate Program Director

Dan Heller

#### Professors

- David Aberbach; B.A.(Univ. Coll., Lond.), M.Litt., Ph.D.(Oxf.)
- Carlos Fraenkel; M.A., Ph.D.(Free Univ., Berlin) (*joint appit. with Philosophy* (*James McGill Professor*)
- Gershon Hundert; B.A.(Col.), M.A.(Ohio St.), Ph.D.(Col.) (*Leanor Segal Professor of Jewish Studies* (*joint appit. with History and Classical 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.) (*joint appit. with Integrated Studies in Education*)
- Yael Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.) (*joint appit. with English*)
- Lawrence Kaplan; B.A.(Yeshiva), M.A., Ph.D.(Harv.)

#### Assistant Professors

- Daniel Kupfert Heller; B.A.(Tor.), Ph.D.(Stan.)
- Christopher Silver; B.A.(Calif., Berk.), M.A., Ph.D.(Calif.-LA) (*Segal Family Assistant Professor of Jewish History and Culture*)

#### Lecturers

- Liane Alitowski; B.Mus., M.Mus.(Ind.), D.M.A.(SUNY, Stony Brook)
- Lea Fima; B.Ed.(Beit Berl), M.A.(McG.)
- Esther Frank; B.A., M.A.(McG.)
- Yuri Vedenyapin; B.A.(Harv.), Ph.D.(Col.)

#### Adjunct Professor

- Ruth Wisse; M.A.(Col.), Ph.D.(McG.)

### 3.11.14.5 Master of Arts (M.A.) Jewish Studies (Thesis) (45 credits)

An M.A. in Jewish Studies (thesis option) is offered in the following areas: History of the Jewish Interpretation of the Bible, Eastern European Jewish History, Jewish Thought, Hebrew Literature, and Modern Jewish Literatures. These areas of specialization are broadly construed to accommodate the range of research interests in the Department. The M.A. can be completed in one year, though most students spend two years in the program.

Note: Students can choose from either the Jewish Studies Stream or History of the Jewish Interpretation of the Bible Stream.
Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 695</td>
<td>(9)</td>
<td>M.A. Thesis 1</td>
</tr>
<tr>
<td>JWST 696</td>
<td>(9)</td>
<td>M.A. Thesis 2</td>
</tr>
<tr>
<td>JWST 697</td>
<td>(12)</td>
<td>M.A. Thesis 3</td>
</tr>
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Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 699</td>
<td>(3)</td>
<td>Research in Jewish Studies</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen according to each student's specialization in consultation with the student's thesis adviser.

Language Requirement

Students choosing Eastern European studies, Jewish thought, or Hebrew literature must demonstrate fluency in either Hebrew or Yiddish according to their field of specialization. Mastery is normally determined by an examination administered by the Department.

History of the Jewish Interpretation of the Bible Stream (45 credits)

Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 690</td>
<td>(3)</td>
<td>M.A. Thesis 1</td>
</tr>
<tr>
<td>JWST 691</td>
<td>(6)</td>
<td>M.A. Thesis 2</td>
</tr>
<tr>
<td>JWST 692</td>
<td>(12)</td>
<td>M.A. Thesis 3</td>
</tr>
<tr>
<td>JWST 694</td>
<td>(3)</td>
<td>M.A. Thesis 4</td>
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</table>

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 510</td>
<td>(3)</td>
<td>Jewish Bible Interpretation 1</td>
</tr>
<tr>
<td>JWST 511</td>
<td>(3)</td>
<td>Jewish Bible Interpretation 2</td>
</tr>
<tr>
<td>JWST 699</td>
<td>(3)</td>
<td>Research in Jewish Studies</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen in consultation with the student's thesis adviser.

Language Requirement

In addition to Hebrew, students in the History of the Jewish Interpretation of the Bible stream must master another language in which primary documents in this field have been written; in most cases, this will be Aramaic, but classical Arabic and Greek are also accepted. Mastery is normally determined by an examination administered by the Department.

3.11.14.6 Master of Arts (M.A.) Jewish Studies (Non-Thesis) (45 credits)

All students pursuing this option must take JWST 699. The remaining credits will normally include 15 credits in two of the following areas and 12 credits in the third: Jewish Thought, Jewish History, and Jewish Literature. The substitution of credits in related disciplines outside of Jewish Studies may be permitted if appropriate. The coursework will be adjusted to the applicant's academic background.

Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 699</td>
<td>(3)</td>
<td>Research in Jewish Studies</td>
</tr>
</tbody>
</table>

Complementary Courses (42 credits)

Students will normally take 15 credits in two of the following areas and 12 credits in the third.
### Jewish Thought (12-15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>JWST 504</td>
<td>3</td>
<td>Seminar in Jewish Thought</td>
</tr>
<tr>
<td>JWST 510</td>
<td>3</td>
<td>Jewish Bible Interpretation 1</td>
</tr>
<tr>
<td>JWST 511</td>
<td>3</td>
<td>Jewish Bible Interpretation 2</td>
</tr>
<tr>
<td>JWST 542</td>
<td>3</td>
<td>Abraham Ibn Ezra as Parshan</td>
</tr>
<tr>
<td>JWST 543</td>
<td>3</td>
<td>Maimonides as Parshan</td>
</tr>
<tr>
<td>JWST 558</td>
<td>3</td>
<td>Topics: Modern Jewish Thought</td>
</tr>
<tr>
<td>JWST 604</td>
<td>3</td>
<td>Topics: In Jewish Thought</td>
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</table>

### Jewish History (12-15 credits)

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 655</td>
<td>6</td>
<td>Tutorial</td>
</tr>
<tr>
<td>JWST 585</td>
<td>3</td>
<td>Tutorial: Eastern European Studies 1</td>
</tr>
<tr>
<td>JWST 586</td>
<td>3</td>
<td>Tutorial: Eastern European Studies 2</td>
</tr>
<tr>
<td>JWST 602</td>
<td>3</td>
<td>East European Jewish History 1</td>
</tr>
</tbody>
</table>

### Jewish Literature (12-15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>JWST 510</td>
<td>3</td>
<td>Jewish Bible Interpretation 1</td>
</tr>
<tr>
<td>JWST 511</td>
<td>3</td>
<td>Jewish Bible Interpretation 2</td>
</tr>
<tr>
<td>JWST 520</td>
<td>3</td>
<td>Bible Interpretation in Antiquity</td>
</tr>
<tr>
<td>JWST 530</td>
<td>3</td>
<td>Topics in Yiddish Literature</td>
</tr>
<tr>
<td>JWST 538</td>
<td>3</td>
<td>Early Rabbinic Parshanut 1</td>
</tr>
<tr>
<td>JWST 541</td>
<td>3</td>
<td>Medieval Ashkenazi Parshanut</td>
</tr>
<tr>
<td>JWST 546</td>
<td>3</td>
<td>Innovative Medieval Parshanut</td>
</tr>
<tr>
<td>JWST 548</td>
<td>3</td>
<td>Medieval Parshanut</td>
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<td>JWST 554</td>
<td>3</td>
<td>Modern Jewish Biblical Scholarship</td>
</tr>
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<td>JWST 571</td>
<td>3</td>
<td>Biblical Literature</td>
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<tr>
<td>JWST 573</td>
<td>3</td>
<td>History of Hebrew Bible Text</td>
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<tr>
<td>JWST 575</td>
<td>3</td>
<td>Topics in Parshanut</td>
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<tr>
<td>JWST 581</td>
<td>3</td>
<td>Aramaic Language</td>
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<td>JWST 587</td>
<td>3</td>
<td>Tutorial in Yiddish Literature</td>
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<td>JWST 588</td>
<td>3</td>
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</tr>
<tr>
<td>JWST 615</td>
<td>3</td>
<td>Literary Analysis of Hebrew Fiction</td>
</tr>
</tbody>
</table>

### 3.11.15 Languages, Literatures, and Cultures

#### 3.11.15.1 Location

- Department of Languages, Literatures, and Cultures
- 688 Sherbrooke Street West, Suite 425
- Montreal QC H3A 3R1
- Canada
- Telephone: 514-398-3650
- Fax: 514-398-1748
- Email: info.llcu@mcgill.ca
- Website: www.mcgill.ca/langlitcultures
3.11.15.2 About Languages, Literatures, and Cultures

The Department’s graduate programs in:

- section 3.11.15.2.2: German Studies;
- section 3.11.15.2.3: Hispanic Studies;
- section 3.11.15.2.4: Italian Studies;
- section 3.11.15.2.5: Russian and Slavic 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 graduate student training.

3.11.15.21 Digital Humanities (Ad Hoc)

The Department of Languages, Literatures, and Cultures offers an Ad Hoc M.A. in Digital Humanities; please contact the Department for more information.

3.11.15.22 German Studies

Faculty research specializations in German Studies cover philology and literary history from the 18th century to the present, film studies, history of the book, philosophy, intellectual history, and the history of the German Left. Students may specialize in literature, intellectual history, film, and/or German media studies. Students in German Studies often spend time abroad in Germany and Austria and take part in conference and workshop organization. German Studies is connected with notable facilities and resources, including the Moving Image Research Laboratory.

Ph.D. Language Tests

Ph.D. candidates in other disciplines who are required to pass a reading test in German may prepare themselves by taking GERM 200 or GERM 202.

section 3.11.15.5: Master of Arts (M.A.) German (Thesis) (48 credits)

Students enrolled in the M.A. with thesis option complete six 3-credit courses and write an M.A. thesis under the direction of one faculty member. Students enrolled in the thesis M.A. in German take fewer courses than non-thesis M.A. students and finish their program by conceiving and executing a substantial research project under the supervision of one professor. M.A. students in this track have gone on to do Ph.D. degrees in German and related fields, and pursue academic careers.

section 3.11.15.6: Master of Arts (M.A.) German (Non-Thesis) (45 credits)

Students enrolled in the M.A. with non-thesis option complete nine 3-credit courses and three research papers. This program is geared toward students who may or may not plan to do a Ph.D. in German and therefore do not necessarily need to undertake a major research project, but would like to acquire a broad basis of courses in German culture and media. Non-thesis M.A. students have gone on to pursue a variety of careers inside and outside the academy.

section 3.11.15.7: Doctor of Philosophy (Ph.D.) German

Students enrolled in the Ph.D. program in German Studies take courses in literature, film, and media history during their first two years, before designing a set of comprehensive qualifying exams tailored toward their particular research and future teaching interests. After passing their exams (including language examination(s)), students may develop a doctoral dissertation topic in consultation with a Departmental faculty member. Students enrolled in this program have gone on to teach German Studies and related fields in universities, CEGEPs, or high schools, as well as pursuing some careers outside of the academy.

3.11.15.23 Hispanic Studies

Hispanic Studies is committed to the disciplined study of all aspects of the literature, intellectual history, and culture of Spain and Latin America, as well as the Spanish and Portuguese languages. Currently, Hispanic Studies has three outstanding research areas:

- Colonial and Peninsular Baroque and Enlightenment, with a variety of intellectual and methodological approaches;
- Queer Studies;
- Film and Literary Studies on contemporary Latin America.

The program has an outstanding Media Resource Centre, whose collection of films and music has over 300 titles from Latin America and Spain, with media in Spanish, Portuguese, and English.

A limited number of language instructorships are available each year and those interested should apply c/o the Graduate Coordinator.

section 3.11.15.8: Master of Arts (M.A.) Hispanic Studies (Thesis) (48 credits)

(Currently, students are only admitted to the thesis option in exceptional circumstances.)

The combination of three courses and one Thesis Preparation course will permit these students the 12 credits per term average that is required for most fellowships.
section 3.11.15.9: Master of Arts (M.A.) Hispanic Studies (Non-Thesis) (48 credits)

All candidates pursuing the M.A. without thesis, both full- and part-time, must successfully complete at least one of their Guided Research projects during the first 12 months. In accordance with the regulations established by Graduate and Postdoctoral Studies, students in non-thesis programs who do not take at least 12 credits per term for the duration of the program are considered to proceed toward their degree on a part-time basis.

section 3.11.15.10: Doctor of Philosophy (Ph.D.) Hispanic Studies

Students enrolled in the Ph.D. program in Hispanic Studies take courses in literature, film, and intellectual history during their first year, before preparing the comprehensive qualifying exams. After passing their exams, students may develop a doctoral dissertation topic in consultation with a Departmental faculty member. Students enrolled in this program have gone on to teach Hispanic Studies and related fields in universities and CEGEPs, as well as pursuing some careers outside of the academy.

3.11.15.24 Italian Studies

Italian Studies' current areas of expertise and methodological orientations are broadly indicated below. Prospective applicants should also consult individual faculty members' research profiles on the Departmental website for more detailed information. They are also invited to send research inquiries to individual professors.

- 19th, 20th, and 21st century narrative;
- Medieval and Renaissance literature and culture;
- Italian cinema from post–World War II neorealism to the present.

These areas are approached from the perspective of:

1. relations with the historical, social, and political contexts;
2. intertextual relations with contemporary and antecedent works and movements in other European literatures and cultures, with a special attention to questions of identity construction;
3. gender issues; and
4. cultural studies.

Master's Programs

The coursework and the thesis and/or research papers must demonstrate that the student possesses a sound knowledge of the language, is familiar with all periods of Italian literature, and has developed the background and skills necessary to carry out scholarly research.

The regulations concerning the M.A. degree are as stated in University Regulations & Resources > Graduate.

Ph.D. (Ad Hoc)

The Department of Languages, Literatures, and Cultures also offers the possibility of directly entering a Ph.D. program in Italian Studies on an ad hoc basis; or, with the permission of the supervisor and the approval of the Graduate Program Director, exceptional students may transfer from the M.A. to the ad hoc Ph.D. program.

section 3.11.15.11: Master of Arts (M.A.) Italian (Thesis) (45 credits)

Students enrolled in the M.A. (thesis) option complete seven 3-credit courses and write an M.A. thesis under the direction of a faculty member.

section 3.11.15.12: Master of Arts (M.A.) Italian (Non-Thesis) (45 credits)

Students enrolled in the M.A. (non-thesis) option complete nine 3-credit courses and two in-depth research papers under the direction of a faculty member.

3.11.15.25 Russian and Slavic Studies

Master's and Ph.D. in Russian

Russian and Slavic Studies offers graduate instruction at both the M.A. and Ph.D. levels. Our faculty specializes in 19th- and 20th-century Russian literature and culture, working in such areas as:

- the Russian Novel;
- Dostoevsky;
- Tolstoy;
- Chekhov;
- the Russian Avant-Garde;
- Russian Modernism;
- Russian Opera;
• Russian Romanticism;
• High Stalinist Culture;
• Post-Soviet culture;
• Cultural mythology;
• Intertextuality.

We also offer a broad and flexible range of graduate seminars. Graduate students collaborate with the Department of Art History and Communication Studies; World Cinemas; and the Institute for Gender, Sexuality, and Feminist Studies (IGSF). Our small but dynamic program allows for a great deal of personal attention, an atmosphere of collegiality, and a close-knit intellectual community. The candidate for admission must have an aptitude for research work and be able to make an original contribution to knowledge. Particular emphasis is placed on working with the original language; credits may be allotted, at the discretion of the Department, to coursework leading to advanced proficiency in this area.

Ph.D. Language Tests

Ph.D. candidates in other departments who require Russian for research and in satisfaction of the language requirement should contact the Department for recommended courses.

Original research work and the scholarly qualities of the thesis are the principal criteria for conferring a graduate degree in Russian.

section 3.11.15.13: Master of Arts (M.A.) Russian (Thesis) (48 credits)

The M.A. in Russian and Slavic Studies consists of coursework plus a research component, which consists of an M.A. thesis proposal and an M.A. thesis.

section 3.11.15.14: Doctor of Philosophy (Ph.D.) Russian

The Ph.D. in Russian and Slavic Studies consists of coursework, multiple examinations, language requirements, and a dissertation. It offers graduate instruction (seminar and guided independent reading courses) as well as research and thesis supervision in the fields of Russian culture and literature. Students also take graduate courses offered in the Department of Languages, Literatures, and Cultures in literary theory, film, and media that allow for broader transnational and interdisciplinary perspectives in their research.

Students are encouraged and helped to participate in conferences and to publish the results of their ongoing research. Particular emphasis is laid on working with the original language. Doctoral dissertation topics are developed in consultation with the faculty. Graduates from the program have gone on to careers in teaching in Canadian and international universities and institutions, as well as exploring other related fields.

3.11.15.3 Languages, Literatures, and Cultures Admission Requirements and Application Procedures

3.11.15.3.1 Admission Requirements

TOEFL is required of all graduate studies applicants whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone). A minimum score of 86, with each component score not less than 20, is required on the TOEFL Internet-based examination (iBT). Proof of TOEFL must be presented at the time of application or shortly thereafter. McGill University’s institution code is 0935.

Students also have the option of taking the IELTS (International English Language Testing Service System) examination, for which the minimum score is an overall band average of 6.5 (academic module). Effective for applicants entering the Winter 2015 semester, McGill University only accepts IELTS scores submitted electronically by an IELTS test centre. No paper test report forms will be accepted. An institutional code is NOT required; applicants must ask the test centre where the test is to be taken to send test scores electronically to McGill using the IELTS system.

GERMAN STUDIES

• Master’s:
  In order to be admitted to the M.A. program in German Studies, candidates must have at least a B.A. degree in German from McGill University or an equivalent degree from another college or university of recognized standing.
  Applicants with joint degrees or majors degrees may be admitted on individual merit but they may be required to take additional courses. They may also be able to enter the program as Qualifying students for the purpose of completing these preliminary studies.
  In order to pursue graduate studies in German, all candidates must have considerable fluency in German, as all courses are given in German.
  Graduate students holding a Language Instructorship or who are otherwise employed will normally not be allowed to take more than four courses a year. Students may be required to attend an approved course in English if their knowledge of that language is judged inadequate. All graduate students are expected to attend the staff-student colloquium.

• Ph.D.:
  M.A. or equivalent.

HISPANIC STUDIES

• M.A. Degree (Non-Thesis or Thesis; currently, students are only admitted to the thesis option in exceptional circumstances):
  In order to be admitted to graduate work in Hispanic Studies, candidates must fulfil the following prerequisites:
1. Candidates must possess a B.A. degree with Honours or, in certain cases, Joint Honours in Hispanic Studies from McGill University, or an equivalent degree from another college or university of recognized standing.

2. Candidates who do not possess the above prerequisites may, with special permission, enter the Department as Qualifying students for the purpose of completing these preliminary studies. They may have to take, among other courses, HISP 550 Comprehensive Examination.

Students may be required to attend an approved course in English or French if their knowledge of either language is deemed inadequate.

Prospective candidates may certainly express their preference, but should note that the Hispanic Studies Graduate Committee reserves the right to determine which of the two options (thesis/non-thesis) students admitted to the M.A. program will be permitted to pursue and/or continue to completion.

- Ph.D. Degree:

  Applicants must normally possess an M.A. in Hispanic Studies, or in a related discipline, from a university of recognized standing. These applicants will be admitted to Ph.D. 2 and follow the program requirements listed below. Exceptionally qualified candidates may apply to enter into Ph.D. 1 directly from the B.A. Honours, and will be required to complete an additional six 3-credit courses above those listed below.

  Applicants must demonstrate proficiency in Spanish, and when appropriate, in Portuguese, plus a working knowledge of either French or English.

  Applicants should submit samples of research papers that they have completed during the course of their previous studies. Submission of the results of the Graduate Record Examination (GRE) is recommended, but not required.

ITALIAN STUDIES

The B.A. degree with Honours or Joint Honours in Italian or its equivalent and a CGPA of 3.2 constitute the minimum requirement. Applicants who do not have these prerequisites may be admitted to a Qualifying year or, in some cases, to a Qualifying term.

RUSSIAN AND SLAVIC STUDIES

The minimum academic requirement is normally a high standing in an undergraduate degree with Honours Russian (or an equivalent specialization). Further, the Admissions Committee must be convinced that the candidate for admission has an aptitude for research work and will be able to make an original contribution to knowledge.

A working knowledge of French is recommended for the Ph.D. program.

Any necessary preparation to fulfill these requirements will be offered within Russian Studies or elsewhere at McGill. Certain graduate courses may be taken with special permission at other approved universities.

3.11.15.32 Application Procedures for Languages, Literatures, and Cultures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.15.32.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Written Work
- Additional Writing Sample – for Italian Studies only: a critical essay, written in Italian if the written work submitted is in English
- Research Proposal – which should include a brief personal statement. For the Ad Hoc M.A. in Digital Humanities only, the research proposal should also illustrate the applicant's computational experience (programming languages, digital projects)
- Interview – for Russian and Slavic Studies only; where appropriate, by telephone if necessary, with members of the Department's Graduate Committee
- Curriculum Vitae

3.11.15.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Languages, Literatures, and Cultures and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dates</td>
<td>All Applicants</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.
3.11.15.4 Languages, Literatures, and Cultures Faculty

**Chair**
E. Bolongaro

**Directors of Undergraduate Studies/Advisers**
Anna Berman (*Russian Studies*)
Lucienne Kroha (*Italian Studies*)
Andrew Piper (*European Literature and Culture*)
Vanessa Celia (*Hispanic Studies*)
Daniel Schwartz (*German Studies*)

**Directors of Graduate Studies**
Karim Bauer (*German Studies*)
Laura Beraha (*Russian Studies*)
Amanda Holmes (*Hispanic Studies*)
Giuliana Minghelli (*Italian Studies*)

**Emeritus Professors**
P.M. Daly; B.A.(Brist.), Ph.D.(Zürich)
K.M. Sibbald; M.A.(Cant.), M.A.(Liv.), Ph.D.(McG.)
Pamela D. Stewart; B.A.(Montr.), M.A.(McG.), F.R.S.C.

**Professors**
K. Bauer; M.A., Ph.D.(Wash.)
J.R. Jouve-Martin; Lic.Fil.(Madrid), Ph.D.(G’town)
J. Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)
P. Peters; Ph.D.(Free Univ., Berlin)
A. Piper; B.A.(Princ.), Ph.D.(Col.)

**Associate Professors**
L. Beraha; B.A., M.A., Ph.D.(McG.)
E. Bolongaro; B.A., LL.B.(Br. Col.), M.A., Ph.D.(McG.)
A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)
L. Kroha; B.A., M.A.(McG.), Ph.D.(Harv.)
F. Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)
G. Minghelli; M.A., Ph.D.(Johns Hop.)
L. Parts; M.A., Ph.D.(Col.)
S. Posthumus; B.A.(Calvin), M.A.(Qu.), Ph.D.(W. Ont.)
S. Sinclair; B.A.(Br. Col.), M.A.(Vic., BC), Ph.D.(Qu.)
M. Soranzo; Dott.Lett.(Padua), Ph.D.(Wisc.)

**Assistant Professors**
A. Berman; B.A.(Brown), M.A., Ph.D.(Princ.), M.Phil.(Camb.)
V. Celia; B.A.(Tor.), M.A.(McG.), Ph.D.(NYU)
T. Holmes; B.A.(Ore.), M.A., Ph.D.(Johns Hop.)
C. Raynor; M.Sc.(LSE), M.A.(Middlebury), Ph.D.(G’town)
Assistant Professors

D. Schwartz; B.A.(Chic.), M.A., Ph.D.(Johns Hop.)

Faculty Lecturers

Sandra Barrales-Bouche; M.A., Ph.D.(Mass.)
Lucia Chamanadjian; M.A.(Car.)
Cristiana Furlan; M.A.; Ph.D.(McG.)
Anny Guimont; M.A.(Montr.)
Maria Ivanova; M.A.(SPbU), Ph.D.(Moscow St.)
Sun-Young Kim; M.A., Ph.D.(Mich.)
Maria-Teresa Mascaro; M.S.(G'town)
Maria Karleen Morrison; M.A.(Tubingen), Ph.D.(Virg.)
Anna Maria Tumino; M.A.(McG.)

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)

3.11.15.5 Master of Arts (M.A.) German (Thesis) (48 credits)

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 690</td>
<td>9</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>GERM 691</td>
<td>9</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>GERM 692</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

Complementary Courses (18 credits)

Six 3-credit courses chosen from any graduate seminar listed as offered in the Department of German Studies. With the approval of the Graduate Studies Committee, students are normally permitted to take a maximum of 3 credits in another department.

Originality of research is not required for the thesis, but the student must show a critical understanding of the subject as demonstrated by the logical development of an argument that is supported by adequate documentation.

Students are expected to complete the degree requirements in two years. They are expected to begin work on their thesis before the end of the first session. The thesis should demonstrate ability to organize the material under discussion, and should be succinct and relevant.

3.11.15.6 Master of Arts (M.A.) German (Non-Thesis) (45 credits)

Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 680</td>
<td>6</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>GERM 681</td>
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<td>Research Paper 2</td>
</tr>
<tr>
<td>GERM 682</td>
<td>6</td>
<td>Research Paper 3</td>
</tr>
</tbody>
</table>

Complementary Courses (27 credits)

Nine 3-credit courses chosen from any graduate seminar listed as offered in the Department of German Studies. With the approval of the Graduate Studies Committee, students are permitted to take a maximum of 3 credits in another department.
3.11.15.7 Doctor of Philosophy (Ph.D.) German

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course
GERM 701 (0) Ph.D. Comprehensive Examination

Complementary Courses
Eight 3-credit courses (24 credits); with the approval of the Graduate Studies Committee, students are permitted to take a maximum of 6 credits in another department.

Language Requirement
French Language examination or Latin (if specializing in German Literature before 1600).

Original research leading to new insights is a prerequisite for the acceptance of a Ph.D. thesis.

As a rule, it will take a student at least three years after the M.A. degree to complete the requirements for the Ph.D. degree. Students who have not spent an appreciable length of time in a German-speaking country are advised to spend one year at a university in such a country, for which credit may be given in the above program.

3.11.15.8 Master of Arts (M.A.) Hispanic Studies (Thesis) (48 credits)

Thesis Courses
HISP 695 (3) Thesis Preparation 1
HISP 696 (3) Thesis Preparation 2
HISP 697 (24) M.A. Thesis

Complementary Courses (18 credits)
Six 3-credit graduate-level HISP courses, with a maximum of 6 credits from Special Topics courses: HISP 690 to 694.

Students admitted to this option normally pursue their studies on a full-time basis. The combination of three courses and one Thesis Preparation course will permit these students the 12 credits per term average that is required for most fellowships.

3.11.15.9 Master of Arts (M.A.) Hispanic Studies (Non-Thesis) (48 credits)

All candidates pursuing the M.A. without thesis must complete HISP 615. Candidates choosing to focus their research on the literature of Spain will take HISP 616. Those wishing to specialize in the literature of Spanish America will take HISP 617.

At the conclusion of each Research Project, students will be required to produce an extended essay, or series of essays, during a 48-hour period with full access to critical material. Each of these essays will focus upon themes and issues central to the particular field of research and will be examined by at least two faculty members. Normally, the examinations for each of these projects will be offered only once during the academic year and always in the same rotation: HISP 615 in December, and both HISP 616 and HISP 617 in April.

Research Project (18 credits)
Note: Students may take either HISP 616 OR HISP 617.

HISP 615 (9) Medieval and Golden Age Literature: Grp
HISP 616 (9) Modern and Contemporary Spanish Literature: Grp
HISP 617 (9) Modern and Contemporary Spanish-American Literature: Grp

Required Courses (6 credits)
HISP 603 (3) Hispanic Bibliography 1
**Complementary Courses (24 credits)**

Eight 3-credit graduate-level HISP courses.

**3.11.15.10 Doctor of Philosophy (Ph.D.) Hispanic Studies**

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISP 701</td>
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<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>HISP 713</td>
<td>3</td>
<td>Research Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (18 credits)**

Six 3-credit courses

**Language Requirement**

Proficiency in Spanish, and, when appropriate, in Portuguese, as well as a functional ability in French and English. A reading knowledge of a fourth language will be determined according to the needs of the candidate's research program.

All courses, comprehensive examinations and language requirements will normally be completed before the dissertation topic is formally approved. A dissertation proposal should be submitted to the Graduate Committee of the Department of Hispanic Studies for approval no later than the end of the second year of full-time doctoral studies.

All general regulations of Graduate and Postdoctoral Studies regarding the Ph.D. degree shall apply.

Required Academic Activities: All candidates preparing their dissertation are required to give an annual formal presentation of their research to the Department, normally beginning in their third year of full-time doctoral studies.

**3.11.15.11 Master of Arts (M.A.) Italian (Thesis) (45 credits)**

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 698</td>
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<td>Thesis Proposal</td>
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<tr>
<td>ITAL 699</td>
<td>18</td>
<td>Thesis</td>
</tr>
</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 602</td>
<td>3</td>
<td>The Literary Tradition</td>
</tr>
<tr>
<td>ITAL 610</td>
<td>3</td>
<td>Bibliography of Italian Literature</td>
</tr>
<tr>
<td>ITAL 619</td>
<td>3</td>
<td>Topics in Literary Theory</td>
</tr>
<tr>
<td>ITAL 680</td>
<td>3</td>
<td>Research Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

9 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The three courses should cover three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Individual Reading Course 1 and ITAL 607 Individual Reading Course 2 offered as tutorials.
Typically, the first year of the program will consist of: Literary Theory course, ITAL 610, the three complementary courses and ITAL 698. The second year will include ITAL 602, ITAL 680 and the thesis.

### 3.11.15.12 Master of Arts (M.A.) Italian (Non-Thesis) (45 credits)

#### Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 690</td>
<td>9</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>ITAL 691</td>
<td>9</td>
<td>Research Paper 2</td>
</tr>
</tbody>
</table>

#### Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 602</td>
<td>3</td>
<td>The Literary Tradition</td>
</tr>
<tr>
<td>ITAL 610</td>
<td>3</td>
<td>Bibliography of Italian Literature</td>
</tr>
<tr>
<td>ITAL 619</td>
<td>3</td>
<td>Topics in Literary Theory</td>
</tr>
<tr>
<td>ITAL 680</td>
<td>3</td>
<td>Research Seminar</td>
</tr>
</tbody>
</table>

#### Complementary Courses (15 credits)

15 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The courses should cover at least three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Individual Reading Course 1 and ITAL 607 Individual Reading Course 2 offered as tutorials.

Typically, the first year of the program will consist of: Literary Theory course, ITAL 610, three complementary courses, and ITAL 690. The second year will include ITAL 602, ITAL 680, two complementary courses, and ITAL 691.

### 3.11.15.13 Master of Arts (M.A.) Russian (Thesis) (48 credits)

#### Thesis Courses (30 credits)

The Thesis Proposal is normally submitted for review by the Department Graduate Committee at the end of the second term of residency. Candidates should consult the Department Thesis Proposal Guidelines.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 691</td>
<td>6</td>
<td>M.A. Thesis Proposal</td>
</tr>
<tr>
<td>RUSS 692</td>
<td>24</td>
<td>M.A. Thesis</td>
</tr>
</tbody>
</table>

#### Complementary Courses (18 credits)

12-18 credits of graduate coursework in the Department

0-6 credits of graduate coursework outside the Department, subject to approval by the Department Graduate Committee.

RUSS 600 and RUSS 601 will be added as complementary courses if the Department deems it necessary.

### 3.11.15.14 Doctor of Philosophy (Ph.D.) Russian

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 700</td>
<td>0</td>
<td>Ph.D. Tutorial</td>
</tr>
<tr>
<td>RUSS 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
</tbody>
</table>
Depending on their individual background, students may be asked to take additional coursework as approved by the Department Graduate Committee.

Students must complete two of the following:

- RUSS 750 (0) History of Russian Language
- RUSS 760 (0) Pre-Petrine Foundation
- RUSS 770 (0) 18th Century Foundation

**Language Requirement**

Proficiency in Russian, functional ability in English and in French, and proficiency in a second Slavic language, if relevant to the research topic and where deemed appropriate by the Department Graduate Committee.

### 3.11.16 Linguistics

#### 3.11.16.1 Location

Department of Linguistics  
1085 Dr. Penfield Avenue  
Montreal QC H3A 1A7  
Canada  
Telephone: 514-398-4222  
Fax: 514-398-7088  
Email: gradprogram.linguistics@mcgill.ca  
Website: [www.mcgill.ca/linguistics](http://www.mcgill.ca/linguistics)

#### 3.11.16.2 About Linguistics

The aim of the graduate program in Linguistics at McGill is to train researchers in core areas of theoretical linguistics:

- phonetics;
- phonology;
- morphology;
- syntax;
- semantics;
- pragmatics;
- experimental linguistics.

Research in experimental areas deals with theoretical questions in light of evidence from another domain (language acquisition, neurolinguistics, processing, language variation, and change).

Students have access to a rich research landscape in cognitive science; for example, most members of the Department are associated with the Centre for Research on Brain, Language and Music (CRBLM). The Department has two labs for conducting experiments, each fitted with a soundproof booth. Members of the Department also have access to other facilities through the CRBLM.

We normally fund all full-time graduate students who maintain strong academic records; our funding package covers living expenses, tuition, and fees. M.A. students are funded for one year and eight months, and Ph.D. students for five years.

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### section 3.11.16.5: Master of Arts (M.A.) Linguistics (Non-Thesis) (45 credits)

The M.A. (Non-Thesis) involves intensive coursework in year 1, followed by additional coursework and completion of a major research paper in year 2. This program is intended for students who wish to gain coursework and research experience in Linguistics beyond the B.A. level. After completion of the M.A., students may choose to continue on to a Ph.D. or pursue a career in a related field.

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### section 3.11.16.6: Doctor of Philosophy (Ph.D.) Linguistics

The Ph.D. degree involves intensive coursework in year 1, additional coursework and completion of two evaluation papers in years 2 and 3, and thesis research and writing in years 4 and 5. This program is principally intended for students who wish to pursue a career in academia.
section 3.11.16: Doctor of Philosophy (Ph.D.) Linguistics: Language Acquisition

The Language Acquisition Program (LAP) is a cross-disciplinary option available to Ph.D. students in Communication Sciences and Disorders, Linguistics, Psychology, and Second Language Education who intend to pursue graduate studies, including writing their thesis, in language acquisition. In addition to meeting the degree requirements for Linguistics, students must complete four interdisciplinary LAP seminars, two graduate-level courses in language acquisition (one from outside the student’s home department), a course in statistics, and they must have a faculty member from outside their home department on their thesis committee. Information about this option is available from the Department and at www.psych.mcgill.ca/lap.html.

3.11.16.3 Linguistics Admission Requirements and Application Procedures

3.11.16.3.1 Admission Requirements

Applicants to the M.A. or Ph.D. should have completed a B.A. with a specialization in linguistics. Applications are also invited from students with a background in other disciplines. Applicants showing strong evidence for truly outstanding potential but lacking a background in linguistics may be considered for admission to a Qualifying Year (QY).

3.11.16.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Applicants are urged to read detailed information on application procedures on the Department of Linguistics' website.

3.11.16.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Linguistics Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.16.4 Linguistics Faculty

Chair
L. Alonso-Ovalle

Emeritus Professors
C.D. Ellis; B.A.(Camb. & MCG.), M.A.(Tor. & Yale), Ph.D.(McG.)
M. Gopnik; M.A., Ph.D.(Penn.)
M. Paradis; B.A.(Montr.), M.A., Ph.D.(McG.), Ph.D.(Montr.)
G.L. Piggott; B.A.(W.I.), M.A., Ph.D.(Tor.)

Professors
L. de M. Travis; B.A.(Yale), Ph.D.(MIT)
### Professors

L. White; M.A.(Camb.), Ph.D.(McG.) *(James McGill Professor)*

### Associate Professors

L. Alonso-Ovalle; B.A.(Oviedo), M.A., Ph.D.(Mass.)

C. Boberg; B.A.(Alta.), Ph.D.(Penn.)

J. Coon; B.A.(Reed), Ph.D.(MIT) *(Canada Research Chair)*

H.M. Goad; B.A.(Br. Col.), M.A., Ph.D.(USC)

B. Schwarz; M.A.(Tübingen), Ph.D.(Mass.)

J. Shimoyama; B.A., M.A.(Ochanomizu Uni.), Ph.D.(Mass.)

M. Wagner; M.A.(Humboldt), Ph.D.(MIT) *(Canada Research Chair)*

### Assistant Professors

M. Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)

T. J. O'Donnell; B.A.(Cornell), Ph.D.(Harv.)

M. Sonderegger; B.S.(MIT), M.S., Ph.D.(Chic.)

F. Torreira; Lic.(Inst. supérieur de traducteurs et interprètes), Cand., Lic.(Univ. Libre de Brux.), M.Phil.(Ill.-Urbana-Champaign), Ph.D.(Radboud)

### Master of Arts (M.A.) Linguistics (Non-Thesis) (45 credits)

The M.A. in Linguistics; Non-Thesis involves intensive coursework in year 1, followed by additional coursework and completion of a major research paper in year 2. This program is intended for students who wish to gain coursework and research experience in Linguistics beyond the B.A. level. After completion of the M.A., students may choose to continue on to a Ph.D. or pursue a career in a related field.

#### Research Project (15 credits)

- **LING 605 (3)** M.A. Research 1
- **LING 606 (3)** M.A. Research 2
- **LING 607 (9)** M.A. Research Paper

#### Required Courses (18 credits)

- **LING 601 (3)** Graduate Research Seminar 1
- **LING 602 (3)** Graduate Research Seminar 2
- **LING 630 (3)** Phonetics 3
- **LING 631 (3)** Phonology 3
- **LING 660 (3)** Semantics 3
- **LING 671 (3)** Syntax 3

#### Complementary Courses (12 credits)

3 credits from:

- **LING 635 (3)** Phonetics and Phonology 4
- **LING 665 (3)** Semantics 4
- **LING 675 (3)** Syntax 4

6-9 credits in Linguistics at the 500, 600, or 700 level.

0-3 credits in a related field at the 500, 600, or 700 level.
3.11.16.6 Doctor of Philosophy (Ph.D.) Linguistics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (21 credits)

LING 601 (3) Graduate Research Seminar 1
LING 602 (3) Graduate Research Seminar 2
LING 630 (3) Phonetics 3
LING 631 (3) Phonology 3
LING 635 (3) Phonetics and Phonology 4
LING 660 (3) Semantics 3
LING 671 (3) Syntax 3
LING 706 (0) Ph.D. Evaluation 1
LING 707 (0) Ph.D. Evaluation 2

Note: LING 706 and LING 707 must be completed before proceeding to thesis research.

Complementary Courses (15 credits)

3 credits from the following:

LING 665 (3) Semantics 4
LING 675 (3) Syntax 4

6 credits from the following:

LING 610 (3) Linguistic Field Research
LING 620 (3) Experimental Linguistics: Methods
LING 661 (3) Advanced Formal Methods

6 additional credits at the 500, 600, or 700 level. At least one in the student's intended research area.

3.11.16.7 Doctor of Philosophy (Ph.D.) Linguistics: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Linguistics. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (27 credits)

LING 601 (3) Graduate Research Seminar 1
LING 602 (3) Graduate Research Seminar 2
LING 630 (3) Phonetics 3
LING 631 (3) Phonology 3
LING 635 (3) Phonetics and Phonology 4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 660</td>
<td>(3)</td>
<td>Semantics 3</td>
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<tr>
<td>LING 671</td>
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<td>Syntax 3</td>
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<tr>
<td>LING 706</td>
<td>(0)</td>
<td>Ph.D. Evaluation 1</td>
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<tr>
<td>LING 707</td>
<td>(0)</td>
<td>Ph.D. Evaluation 2</td>
</tr>
<tr>
<td>LING 710</td>
<td>(2)</td>
<td>Language Acquisition Issues 2</td>
</tr>
<tr>
<td>PSYC 709</td>
<td>(2)</td>
<td>Language Acquisition Issues 1</td>
</tr>
<tr>
<td>SCSD 712</td>
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<td>Language Acquisition Issues 4</td>
</tr>
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Note: LING 706 and LING 707 must be completed before proceeding to thesis research.

**Complementary Courses (18 credits)**

3 credits of statistics from the following list

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDPE 676</td>
<td>(3)</td>
<td>Intermediate Statistics</td>
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<tr>
<td>EDPE 682</td>
<td>(3)</td>
<td>Univariate/Multivariate Analysis</td>
</tr>
<tr>
<td>LING 620</td>
<td>(3)</td>
<td>Experimental Linguistics: Methods</td>
</tr>
<tr>
<td>PSYC 650</td>
<td>(3)</td>
<td>Advanced Statistics 1</td>
</tr>
<tr>
<td>PSYC 651</td>
<td>(3)</td>
<td>Advanced Statistics 2</td>
</tr>
</tbody>
</table>

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 665</td>
<td>(3)</td>
<td>Semantics 4</td>
</tr>
<tr>
<td>LING 675</td>
<td>(3)</td>
<td>Syntax 4</td>
</tr>
</tbody>
</table>

6 credits from the following methods courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 610</td>
<td>(3)</td>
<td>Linguistic Field Research</td>
</tr>
<tr>
<td>LING 620</td>
<td>(3)</td>
<td>Experimental Linguistics: Methods</td>
</tr>
<tr>
<td>LING 661</td>
<td>(3)</td>
<td>Advanced Formal Methods</td>
</tr>
</tbody>
</table>

If LING 620 is taken to satisfy both the Statistics and the Methods complementary requirements, then 3 additional credits should be taken at the 500, 600, or 700 level.

6 additional credits at the 500, 600, or 700 level, at least 3 credits selected from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 620</td>
<td>(3)</td>
<td>Social Justice Issues in Second Language Education</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>(3)</td>
<td>Second Language Learning</td>
</tr>
<tr>
<td>EDSL 624</td>
<td>(3)</td>
<td>Educational Sociolinguistics</td>
</tr>
<tr>
<td>EDSL 627</td>
<td>(3)</td>
<td>Instructed Second Language Acquisition Research</td>
</tr>
<tr>
<td>EDSL 629</td>
<td>(3)</td>
<td>Second Language Assessment</td>
</tr>
<tr>
<td>EDSL 632</td>
<td>(3)</td>
<td>Second Language Literacy Development</td>
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<tr>
<td>LING 555</td>
<td>(3)</td>
<td>Language Acquisition 2</td>
</tr>
<tr>
<td>LING 590</td>
<td>(3)</td>
<td>Language Acquisition and Breakdown</td>
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<tr>
<td>LING 651</td>
<td>(3)</td>
<td>Topics in Acquisition of Phonology</td>
</tr>
<tr>
<td>LING 655</td>
<td>(3)</td>
<td>Theory of L2 Acquisition</td>
</tr>
<tr>
<td>LING 751</td>
<td>(3)</td>
<td>Advanced Seminar: Experimental 1</td>
</tr>
</tbody>
</table>
LING 752 (3) Advanced Seminar: Experimental 2
PSYC 545 (3) Topics in Language Acquisition
PSYC 735 (3) Developmental Psychology and Language
SCSD 619 (3) Phonological Development
SCSD 632 (3) Phonological Disorders: Children
SCSD 633 (3) Language Development
SCSD 637 (3) Developmental Language Disorders 1
SCSD 643 (3) Developmental Language Disorders 2
SCSD 652 (3) Advanced Research Seminar 1
SCSD 653 (3) Advanced Research Seminar 2

0-2 credits from the following:
EDSL 711 (2) Language Acquisition Issues 3

3.11.17 Mathematics and Statistics

3.11.17.1 Location
Department of Mathematics and Statistics
Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal QC H3A 0B9
Canada
Telephone: 514-398-3800
Fax: 514-398-3899
Email: grad.mathstat@mcgill.ca
Website: www.mcgill.ca/mathstat/

3.11.17.2 About Mathematics and Statistics
The Department of Mathematics and Statistics offers programs that can be focused on applied mathematics, pure mathematics, and statistics leading to master’s degrees (M.A. or M.Sc.), with program options in Bioinformatics and in Computational Science and Engineering (CSE). The research groups are:
- Algebra;
- Algebraic Geometry;
- Analysis;
- Applied Mathematics;
- Differential Equations;
- Differential Geometry;
- Discrete Mathematics;
- Geometric Group Theory;
- Logic;
- Mathematical Biology;
- Mathematical Physics;
- Number Theory;
- Probability;
- Statistics.

In the basic master’s programs, students must choose between the thesis option, and the non-thesis option which requires a project. The Bioinformatics and CSE options require a thesis. In addition to the Ph.D. program in Mathematics and Statistics, there is a Ph.D. option in Bioinformatics.
The Department's website provides extensive information on the Department and its facilities, including the research activities and research interests of individual faculty members. It also provides detailed supplementary information concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.

Students are urged to consult the Institut des Sciences Mathématiques (ISM) website, which coordinates intermediate and advanced-level graduate courses among Montreal and Quebec universities. A list of courses available under the ISM auspices can be obtained from the ISM website. The ISM also offers fellowships and promotes a variety of joint academic activities greatly enhancing the mathematical environment in Montreal and in the province of Quebec.

**Master of Arts (M.A.) Programs in Mathematics and Statistics**

Detailed program requirements for the following M.A. programs are found in [Arts > Graduate > Browse Academic Units & Programs > Mathematics and Statistics.](#)

- **section 3.11.17.5: Master of Arts (M.A.) Mathematics and Statistics (Thesis) (45 credits)**

  The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the Master's degree (M.A.). The thesis option requires a thesis and six approved courses.

- **section 3.11.17.6: Master of Arts (M.A.) Mathematics and Statistics (Non-Thesis) (45 credits)**

  The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.A.). The non-thesis option requires a project and eight approved courses.

**Master of Science (M.Sc.) Programs in Mathematics and Statistics**

Detailed program requirements for the following M.Sc. programs are found in [Science > Graduate > Browse Academic Units & Programs > Mathematics and Statistics.](#)

- **section 14.11.7.5: Master of Science (M.Sc.) Mathematics and Statistics (Thesis) (45 credits)**

  The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The thesis option requires a thesis and six approved courses.

- **section 14.11.7.6: Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Bioinformatics (48 credits)**

  Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field.

- **section 14.11.7.7: Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering (47 credits)**

  CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science. CSE focuses on the development of problem-solving methodologies and robust tools for the solution of scientific and engineering problems.

- **section 14.11.7.8: Master of Science (M.Sc.) Mathematics and Statistics (Non-Thesis) (45 credits)**

  The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The non-thesis option requires a project and eight approved courses.

**Ph.D. Programs in Mathematics and Statistics**

- **section 3.11.17.7: Doctor of Philosophy (Ph.D.) Mathematics and Statistics**

  The Department offers a course of studies leading to the Ph.D. degree. It differs substantially from the master’s programs in that the student must write a thesis that makes an original contribution to knowledge. The thesis topic is chosen by the student in consultation with the research supervisor. The thesis must be examined and approved by an internal examiner (normally the research supervisor), an external examiner and the Oral Examination Committee. The student must make an oral defense of the thesis before that Committee. In addition, the student has to pass comprehensive examinations.

- **section 3.11.17.8: Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics**

  Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the Ph.D.
level will be fluent in the concepts, language, approaches, and limitations of the field and will have the capability of developing an independent bioinformatics research program.

3.11.17.3 Mathematics and Statistics Admission Requirements and Application Procedures

3.11.17.3.1 Admission Requirements

In addition to the general Graduate and Postdoctoral Studies requirements, the Department requirements are as follows:

Master's Degree

The normal entrance requirement for the master's programs is a Canadian honours degree or its equivalent, with high standing, in mathematics or a closely related discipline in the case of applicants intending to concentrate in statistics or applied mathematics.

Applicants wishing to concentrate in pure mathematics should have a strong background in linear algebra, abstract algebra, and real and complex analysis.

Applicants wishing to concentrate in statistics should have a strong background in linear algebra and basic real analysis. A calculus-based course in probability and one in statistics are required, as well as some knowledge of computer programming. Some knowledge of numerical analysis and optimization is desirable.

Applicants wishing to concentrate in applied mathematics should have a strong background in most of the areas of linear algebra, analysis, differential equations, discrete mathematics, and numerical analysis. Some knowledge of computer programming is also desirable.

Students whose preparation is insufficient for the program they wish to enter may, exceptionally, be admitted to a Qualifying year.

Ph.D. Degree

A master's degree with high standing is required, in addition to the requirements listed above for the master's program. Students may transfer directly from the master’s program to the Ph.D. program under certain conditions. Students without a master's degree, but with exceptionally strong undergraduate training, may be admitted directly to Ph.D. 1.

3.11.17.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.17.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Personal Statement – In the personal statement, the applicants should clearly explain their choice of preferred research group(s) and preferred area(s) of research, as well as providing relevant information that will not be reflected on their transcripts
- Research Proposal (optional) – If applicants have a specific research problem of interest that they want to pursue, they may discuss the details in the research proposal
- Applicants in pure and applied mathematics should provide a GRE score report, if available

For more details, please consult www.mcgill.ca/mathstat/postgraduate/prospective-students/admissions.

3.11.17.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Mathematics and Statistics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.
# Mathematics and Statistics Faculty

## Chair
David A. Stephens

## Graduate Program Director
Dmitry Jakobson

## Emeritus Professors
- **William J. Anderson**: B.Eng., Ph.D. (McG.)
- **Michael Barr**: A.B., Ph.D. (Penn.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)
- **William G. Brown**: B.A. (Tor.), M.A. (Col.), Ph.D. (Tor.)
- **Marta Bunge**: M.A., Ph.D. (Penn.)
- **Ian Connell**: B.Sc., M.Sc. (Manit.), Ph.D. (McG.)
- **Kohur N. GowriSankaran**: B.A., M.A. (Madr.), Ph.D. (Bom.)
- **Paul Koosis**: B.A., Ph.D. (Calif., Berk.)
- **Michael Makkai**: M.A., Ph.D. (Bud.) (*Peter Redpath Professor of Pure Mathematics*)
- **Sherwin Maslowe**: B.Sc. (Wayne St.), 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.)
- **Vanamamalai Seshadri**: B.Sc, M.Sc. (Madr.), Ph.D. (Okl.)
- **George P.H. Styan**: M.A., Ph.D. (Col.)
- **Kwok Kuen Tam**: M.A., Ph.D. (Tor.)
- **John C. Taylor**: B.Sc. (Acad.), M.A. (Qu.), Ph.D. (McM.)
- **Jian-Jun Xu**: B.Sc., M.Sc. (Beijing), M.Sc., Ph.D. (Rensselaer Poly.)
- **Sanjo Zlobec**: M.Sc. (Zagreb), Ph.D. (N'western)

## 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*)
- **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. (Can.)
- **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.), D.Phil. (Oxf.) F.R.S.C.
- **Dmitry Jakobson**: B.Sc. (MIT), Ph.D. (Princ.) (*Peter Redpath Professor*)
- **Vojkan Jaksic**: B.S. (Belgrade), Ph.D. (Calif. Tech.)
- **Niky Kamran**: B.Sc., M.Sc. (Bruxelles), Ph.D. (Wat.), F.R.S.C. (*James McGill Professor*)
- **Adam Oberman**: B.S. (Tor.), M.S., Ph.D. (Chic.)
- **Charles Roth**: M.Sc. (McG.), Ph.D. (Hebrew)
- **David A. Stephens**: B.Sc., Ph.D. (Nott.) (*James McGill Professor*)
- **John A. Toth**: B.Sc., M.Sc. (McM.), Ph.D. (MIT) (*William Dawson Scholar*)
### Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
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<tbody>
<tr>
<td>Adrian Vetta</td>
<td>B.Sc., M.Sc.(LSE), Ph.D.(MIT) (joint appt. with Computer Science)</td>
</tr>
<tr>
<td>Daniel T. Wise</td>
<td>B.A.(Yeshiva), Ph.D.(Princ.) (James McGill Professor)</td>
</tr>
<tr>
<td>David Wolfson</td>
<td>B.Sc., M.Sc.(Natal), Ph.D.(Purd.)</td>
</tr>
</tbody>
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### Associate Professors

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Louigi Addario-Berry</td>
<td>B.Sc., M.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Antony R. Humphries</td>
<td>B.A., M.A.(Camb.), Ph.D.(Bath)</td>
</tr>
<tr>
<td>Abbas Khalili</td>
<td>B.S., M.S.(Isfahan Univ. of Tech), Ph.D.(Wat.)</td>
</tr>
<tr>
<td>Jean-Philippe Lessard</td>
<td>B.Sc.(Sher.), M.Sc.(Montr.), Ph.D.(Georgia Tech.)</td>
</tr>
<tr>
<td>Jean-Christophe Nave</td>
<td>B.Sc., Ph.D.(Calif., Santa Barbara)</td>
</tr>
<tr>
<td>Johanna Neslehova</td>
<td>B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)</td>
</tr>
<tr>
<td>Sergey Norin</td>
<td>M.S.(Saint Petersburg St.), Ph.D.(Georgia Tech.)</td>
</tr>
<tr>
<td>Mikael Pichot</td>
<td>B.Sc.(Lyon), M.S., Ph.D.(ENS Lyon)</td>
</tr>
<tr>
<td>Russell Steele</td>
<td>B.S., M.S.(Carn. Mell), Ph.D.(Wash.)</td>
</tr>
<tr>
<td>Gantumur Tsogtgerel</td>
<td>B.Sc.(Nat. Univ. Mongolia), M.Sc., Ph.D.(Utrecht)</td>
</tr>
</tbody>
</table>

### Assistant Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linan Chen</td>
<td>B.S.(Tsinghua), Ph.D.(MIT)</td>
</tr>
<tr>
<td>Sarah Harrison</td>
<td>B.Sc.(MIT), Ph.D.(Stan.)</td>
</tr>
<tr>
<td>Tim Hoheisel</td>
<td>Dipl., Ph.D.(Wurzburg)</td>
</tr>
<tr>
<td>Jessica Lin</td>
<td>B.A.(NYU), Ph.D.(Chic.)</td>
</tr>
<tr>
<td>Piotr Przytycki</td>
<td>M.Sc., Ph.D.(Warsaw)</td>
</tr>
<tr>
<td>Maksym Radziwill</td>
<td>B.Sc.(McG.), Ph.D.(Stan.) (Canada Research Chair)</td>
</tr>
<tr>
<td>Marcin Sabok</td>
<td>M.Sc., Ph.D.(Warsaw)</td>
</tr>
<tr>
<td>Jérôme Vétois</td>
<td>Ph.D.(Cergy-Pontoise)</td>
</tr>
<tr>
<td>Yi Yang</td>
<td>B.S.(Sichuan), M.S., Ph.D.(Minn.)</td>
</tr>
</tbody>
</table>

### Associate Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xiao-Wen Chang</td>
<td>(Computer Science)</td>
</tr>
<tr>
<td>Luc P. Devroye</td>
<td>(Computer Science)</td>
</tr>
<tr>
<td>Pierre R.L. Dutilleul</td>
<td>(Plant Science)</td>
</tr>
<tr>
<td>Leon Glass</td>
<td>(Physiology)</td>
</tr>
<tr>
<td>James A. Hanley</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
<tr>
<td>Hamed Hatami</td>
<td>(Computer Science)</td>
</tr>
<tr>
<td>Lawrence Joseph</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
<tr>
<td>Anmar Khadra</td>
<td>(Physiology)</td>
</tr>
<tr>
<td>Michael Mackey</td>
<td>(Physiology)</td>
</tr>
<tr>
<td>Erica E.M. Moodie</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
<tr>
<td>Prakash Panangaden</td>
<td>(Computer Science)</td>
</tr>
<tr>
<td>Robert W. Platt</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
<tr>
<td>James O. Ramsay</td>
<td>(Psychology)</td>
</tr>
<tr>
<td>Alexandra Schmidt</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
<tr>
<td>Kaleem Siddiqui</td>
<td>(Computer Science)</td>
</tr>
<tr>
<td>Christina Wolfson</td>
<td>(Epidemiology and Biostatistics)</td>
</tr>
</tbody>
</table>
Adjunct Professors
Renato C. Calleja; B.S.(Tec. Autonomo de Mexico), Ph.D.(Texas-Austin)
Vasek Chvatal; Ph.D.(Wat.)
Eliot Freid; B.S.(Calif. Poly. St.), M.S., Ph.D.(Calif. Tech.)
Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)
Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)
Payman L. Kassaei; B.Sc.(Sharif Tech.), Ph.D.(MIT)
Dimitris Koukoulopoulos; M.Sc., Ph.D.(Ill.-Chic.)
Etienne Marceau; B.Sc., M.Sc.(Laval); Ph.D.(Louvain)
Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Uni.), Ph.D.(Kanazawa)
Claude-Alain Pillet; M.Sc., Ph.D.(ETH Zurich)
Iosif Polterovich; M.Sc.(Moscow St.), Ph.D.(Weizmann Inst.)
M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.
Robert A. Seely; B.Sc.(McG.), Ph.D.(Cant.)
F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.)
Armen Shirikyan; M.Sc., Ph.D.(Moscow St.); Habilitation(Paris-Sud XI)
Johannes Walcher; Dip., Ph.D.(ETH Zurich) (joint appt. with Physics)

Senior Faculty Lecturer
Axel Hundemer; M.Sc., Ph.D.(Munich)

Faculty Lecturers
José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)
Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)
Sidney Trudeau; Ph.D.(McG.)

3.11.17.5 Master of Arts (M.A.) Mathematics and Statistics (Thesis) (45 credits)

Thesis Courses (24 credits)
MATH 600 (6) Master's Thesis Research 1
MATH 601 (6) Master's Thesis Research 2
MATH 604 (6) Master's Thesis Research 3
MATH 605 (6) Master's Thesis Research 4

Complementary Courses (21 credits)
At least 6 approved graduate courses, at the 500, 600 or 700 level, of 3 credits or more each.

3.11.17.6 Master of Arts (M.A.) Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)
MATH 640 (8) Project 1
MATH 641 (8) Project 2

Complementary Courses (29 credits)
At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.
3.11.17.7 Doctor of Philosophy (Ph.D.) Mathematics and Statistics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
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<tr>
<th>Course</th>
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<td>MATH 700</td>
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<tr>
<td>MATH 701</td>
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</table>

Ph.D. Comprehensive Examination Part A

Ph.D. Comprehensive Examination Part B

Complementary Courses (21 credits)

Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

3.11.17.8 Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

<table>
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<th>Course</th>
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<tr>
<td>COMP 616D1</td>
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<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
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<tr>
<td>MATH 700</td>
<td>(0)</td>
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<tr>
<td>MATH 701</td>
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</table>

Bioinformatics Seminar

Ph.D. Comprehensive Examination Part A

Ph.D. Comprehensive Examination Part B

Complementary Courses (6 credits)

(3-6 credits)

The twelve one-semester complementary courses for the Ph.D. degree must include at least two from the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the list below must be chosen:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
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</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Bioinformatics: Molecular Biology

Bioinformatics: Proteomics

Structural Bioinformatics

Bioinformatics: Functional Genomics

Systems Biology and Biophysics

3.11.18 Philosophy

3.11.18.1 Location

Department of Philosophy
Leacock Building, 9th floor
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada
Telephone: 514-398-6060
Email: info.philosophy@mcgill.ca
Website: www.mcgill.ca/philosophy
3.11.18.2 About Philosophy

The Department of Philosophy has particular strength in the following areas:

- Ancient Philosophy;
- Early Modern Philosophy;
- Kant and post-Kantian German Philosophy;
- Philosophy of Language and Philosophy of Mind;
- Aesthetics;
- Moral and Political Philosophy;
- Feminist Philosophy;
- History and Philosophy of Science and Mathematics;
- Contemporary European Philosophy.

The Department offers assistance to students in every aspect of placement. Our Placement Officer counsels students about coursework and areas of competence, helps to establish evidence of teaching ability, administers the dossier for job applications, and provides advice and follow-up in the interview process. Many of our graduates have gone on to do postdoctoral research and over 80% are now in tenure track or sessional appointments.

The Department offers courses of study leading to the Ph.D. in Philosophy. It also offers, in conjunction with the Biomedical Ethics Unit, a course of study leading to the M.A. degree in Bioethics.

Ph.D. Program

By December 15 of their third year in the program (Ph.D. 3) for students admitted at Ph.D. 1 and August 15 in their second year in the program (Ph.D. 3) for students admitted at Ph.D. 2, students must submit a research paper (the “candidacy paper” [3 credits]), which may be worked up from a paper written to fulfill the requirements of a graduate course, to a Thesis Advancement Committee consisting of at least two members of the staff of the Department. The membership of this committee will be determined by the Graduate Director in consultation with the student; it is anticipated that members of this committee would, in principle, direct the student's thesis.

This committee assigns a grade to the student's paper and reviews her or his graduate performance; on the basis of its assessment and review, it recommends to the Department as a whole either to permit the student to continue with the Ph.D. program and undertake a thesis or to decline to permit the student to continue. Two necessary conditions for a positive recommendation are that the student (a) receive a grade of at least B+ on the candidacy paper, and (b) have at least a 3.5 GPA (on the undergraduate Grade Point scale) in the coursework required for the program.

The Department as a whole, taking into account the Thesis Advancement Committee's recommendation and the student's overall academic record in the program, decides whether to permit the student to continue. Students who do not receive a positive recommendation but who satisfy Graduate and Postdoctoral Studies requirements (no courses below a B- and completion of 45 credits) will be recommended to Graduate and Postdoctoral Studies by the Department to transfer from the Ph.D. program to the M.A. program.

Graduate students are expected to continue to contribute to the intellectual life of the Department after being promoted to candidacy. They can do so by participating in reading and discussion groups and, most of all, by auditing seminars both within and outside their areas of specialty.

section 3.11.18.5: Master of Arts (M.A.) Philosophy (Thesis): Bioethics (45 credits)

The Master's in Bioethics is an interdisciplinary academic program that emphasizes both the conceptual and the practical aspects of bioethics. Ordinarily, it takes at least two years to complete, although some students have completed it in 18 months. The first year is devoted to coursework (including a clinical practicum), and the second year is devoted to a master's thesis on a topic in bioethics that also satisfies the requirements of the base discipline.

The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, bioethics courses (6 credits minimum) offered by the base faculty or department, and any graduate course required or accepted by a base faculty for the granting of a master's degree, for a total of 21 credits.

The second year is devoted to an internship (practicum), and the second year is devoted to a master's thesis on a topic in bioethics that also satisfies the requirements of the base discipline.

section 3.11.18.6: Doctor of Philosophy (Ph.D.) Philosophy

The program is intended for students with a B.A. or M.A. in Philosophy, though some exceptions may be possible. It is a pluralist Department with an excellent professor-to-student ratio, strong preparation for dissertation work, and guaranteed full funding for four years for all admitted Ph.D. students.

section 3.11.18.7: Doctor of Philosophy (Ph.D.) Philosophy: Environment

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking.

Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment (MSE), in partnership with participating academic units.
section 3.11.18: Doctor of Philosophy (Ph.D.) Philosophy: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Philosophy who wish to earn 9 additional credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

3.11.18.3 Philosophy Admission Requirements and Application Procedures

3.11.18.3.1 Admission Requirements

Ph.D.

Students with an Honours B.A. degree in Philosophy, or the equivalent, should apply for admission to the Ph.D. program at the Ph.D. 1 level. Students who hold an M.A. degree in Philosophy, or equivalent, from another institution should apply for admission to the Ph.D. program at the Ph.D. 2 level. Students entering the Ph.D. program (at Ph.D. 1 or Ph.D. 2) will be required to complete two years of coursework. (N.B. At present, we do not normally consider applicants for an M.A. in Philosophy, with the exception of the specialty M.A. in Biomedical Ethics.)

The Department considers an Honours B.A. degree to include:

1. A general knowledge of the history of Western philosophy: Greek, Medieval, Modern;
2. A systematic knowledge of the main philosophical disciplines in their contemporary as well as historical contexts: logic, ethics, epistemology, and metaphysics;
3. An ability to present, in written form, clear and substantial reconstructions and analyses of the materials normally studied in the areas mentioned in (1) and (2).

To demonstrate their competence in these areas, applicants must submit transcripts of academic work, three letters of recommendation from persons with whom they have studied, and at least one substantial example (approximately 15–20 typewritten pages) of their written philosophical work.

In addition, applicants from North America whose first language is English are strongly encouraged to submit scores of the Graduate Record Examination (GRE). Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English (TOEFL score).

Students who hold an M.A. degree from another institution should apply for admission to the Ph.D. 2 level.

M.A. (Bioethics)

Students applying to the Bioethics Specialty program must write an M.A. thesis proposal. All applications to this program must also receive the approval of the Director of the Specialty program. Students who apply for this program should note that they must participate in a practicum, which continues beyond the end of their second term of classes.

3.11.18.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.18.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Letters of Reference – three (3) original letters of reference
- Writing Sample (15–20 pages)
- Personal Statement (2–3 pages)

3.11.18.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Philosophy and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** The Department considers admissions for the Fall term only. Applications for Winter or Summer term admission will not be considered.

### 3.11.18.4 Philosophy Faculty

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chair</strong></td>
<td>Hasana Sharp</td>
</tr>
<tr>
<td><strong>Emeritus Professors</strong></td>
<td></td>
</tr>
<tr>
<td>Mario A. Bunge; Ph.D.(LaPluta), F.R.S.C. (John Frothingham Emeritus Professor of Logic and Metaphysics)</td>
<td></td>
</tr>
<tr>
<td>Storrs McCall; B.A.(McG.), B.Phil., D.Phil.(Oxf.)</td>
<td></td>
</tr>
<tr>
<td>James McGilvray; B.A.(Carleton Coll.), Ph.D.(Yale)</td>
<td></td>
</tr>
<tr>
<td>Calvin Normore; B.A.(McG.), M.A., Ph.D.(Tor.)</td>
<td></td>
</tr>
<tr>
<td><strong>Professors</strong></td>
<td></td>
</tr>
<tr>
<td>David Davies; B.A.(Oxf.), M.A.(Manit.), Ph.D.(W. Ont.)</td>
<td></td>
</tr>
<tr>
<td>Marguerite Deslauriers; B.A.(McG.), M.A., Ph.D.(Tor.)</td>
<td></td>
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<tr>
<td>George Di Giovannini; B.A., M.A., S.T.B., Ph.D.(Tor.)</td>
<td></td>
</tr>
<tr>
<td>Carlos Fraenkel; B.A., M.A., Ph.D.(Free Univ., Berlin) (James McGill Professor) (joint appt. with Jewish Studies)</td>
<td></td>
</tr>
<tr>
<td>Michael Hallet; B.Sc., Ph.D.(Lond.) (John Frothingham Professor of Logic and Metaphysics)</td>
<td></td>
</tr>
<tr>
<td>Stephen Menn; M.A.(Chicago); M.A.(Johns Hop.), Ph.D.(Chicago), Ph.D.(Johns Hop.)</td>
<td></td>
</tr>
<tr>
<td>Sarah Stroud; A.B.(Harvard), Ph.D.(Princeton)</td>
<td></td>
</tr>
<tr>
<td><strong>Associate Professors</strong></td>
<td></td>
</tr>
<tr>
<td>Alia Al-Saji; M.A.(Louvain), Ph.D.(Emory)</td>
<td></td>
</tr>
<tr>
<td>Michael Blome-Tillmann; B.Phil., D.Phil.(Oxford) (William Dawson Scholar)</td>
<td></td>
</tr>
<tr>
<td>R. Philip Buckley; Ph.D.(Louvain)</td>
<td></td>
</tr>
<tr>
<td>Emily Carson; M.A.(McG.), Ph.D.(Harvard)</td>
<td></td>
</tr>
<tr>
<td>Guéll Fiasse; B.A., M.A., Ph.D.(Louvain) (joint appt. with School of Religious Studies)</td>
<td></td>
</tr>
<tr>
<td>Ian Gold; B.A., M.A.(McG.), Ph.D.(Princeton) (joint appt. with Psychiatry)</td>
<td></td>
</tr>
<tr>
<td>Iwao Hirose; B.A., M.A.(Waseda), Ph.D.(S. And.) (joint appt. with McGill School of Environment)</td>
<td></td>
</tr>
<tr>
<td>Alison Laywine; B.A.(Ottawa), M.A.(Montréal), Ph.D.(Chicago)</td>
<td></td>
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<tr>
<td>Eric Lewis; B.A.(Cornell), Ph.D.(Illinois-Chicago)</td>
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<tr>
<td>Gregory Mikkelson; M.S., Ph.D.(Chicago) (joint appt. with McGill School of Environment)</td>
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<tr>
<td>Dirk Schlimm; M.Sc.(TU Darmstadt), M.Sc., Ph.D.(Carnegie Mellon)</td>
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<tr>
<td>Hasana Sharp; A.B.(Occidental), M.A.(Binghampton), Ph.D.(Pennsylvania)</td>
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<tr>
<td>Natalie Stoljar; B.A., LL.B.(Sydney), Ph.D.(Princeton) (joint appt. with Social Studies of Medicine)</td>
<td></td>
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<tr>
<td><strong>Assistant Professors</strong></td>
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<tr>
<td>Eran Tal; B.A., M.A.(Tel Aviv), Ph.D.(Tor.)</td>
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<tr>
<td>Kristin Voigt; B.A., M.Phil., D.Phil.(Oxford) (joint appt. with Institute for Health and Social Policy)</td>
<td></td>
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<tr>
<td><strong>Adjunct Professor</strong></td>
<td></td>
</tr>
<tr>
<td>Susan-Judith Hoffmann; (Dawson)</td>
<td></td>
</tr>
</tbody>
</table>


**Auxiliary Professor**


**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)

Jacob T. Levy; A.B. (Brown), M.A., Ph.D. (Princ.) (Political Science)

**Affiliate Members**

Steven Davis; B.A. (Roch.), M.A. Ph.D. (Ill.) (Emeritus Professor of Philosophy, Carleton)

Iain Macdonald; B.A. (C'dia), M.A. (Wales), D.E.A. (Nice), Ph.D. (Essex)

---

**3.11.18.5 Master of Arts (M.A.) Philosophy (Thesis): Bioethics (45 credits)**

**Thesis Courses (24 credits)**

- BIOE 690 (3) M.Sc. Thesis Literature Survey
- BIOE 691 (3) M.Sc. Thesis Research Proposal
- BIOE 693 (12) M.Sc. Thesis

**Required Courses (9 credits)**

- BIOE 680 (3) Bioethical Theory
- BIOE 681 (3) Bioethics Practicum
- PHIL 643 (3) Seminar: Medical Ethics

**Complementary Courses (12 credits)**

12 credits are to be taken in any graduate courses required or accepted by the Department of Philosophy for the granting of a master's degree.

---

**3.11.18.6 Doctor of Philosophy (Ph.D.) Philosophy**

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (18 credits)**

- PHIL 607 (6) Pro-Seminar 1
- PHIL 682 (6) Pro-Seminar 3
- PHIL 685 (3) Fundamentals of Logic
- PHIL 690 (3) Candidacy Paper

**Complementary Courses**

(21-27 credits)

Students admitted to Ph.D. 1 require nine complementary courses.

Students admitted to Ph.D. 2 require seven complementary courses.

Minimum of two courses from the following
and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of 2 courses from the following:

PHIL 643  (3)  Seminar: Medical Ethics
PHIL 644  (3)  Political Theory
PHIL 648  (3)  Seminar: Philosophy of Law

and/or any other course at the 500, 600 or 700 level in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of 2 courses from the following:

PHIL 606  (3)  Seminar: Philosophy of Mind
PHIL 610  (3)  Seminar on Advanced Logic 2
PHIL 611  (3)  Seminar: Philosophy of Logic and Mathematics
PHIL 615  (3)  Seminar: Philosophy of Language
PHIL 619  (3)  Seminar: Epistemology
PHIL 621  (3)  Seminar: Metaphysics
PHIL 670  (3)  Seminar: Contemporary Analytic Philosophy

and/or any other course at the 500 level or higher in Metaphysics and Epistemology recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

The remaining course(s) must be at the 500, 600, or 700 level and are to be chosen in consultation with the student's advisory committee.

**Language Requirement**

One research language at the advanced level or two research languages at the intermediate level.

**3.11.18.7 Doctor of Philosophy (Ph.D.) Philosophy: Environment**

The Graduate option in Environment provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence that political, socioeconomic and ethical judgments have. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (24 credits)**

ENVR 610  (3)  Foundations of Environmental Policy
ENVR 650  (1)  Environmental Seminar 1
ENVR 651  (1)  Environmental Seminar 2
Environmental Seminar 3
Pro-Seminar 1
Pro-Seminar 3
Fundamentals of Logic
Candidacy Paper

Complementary Courses

(24-30 credits)

Students admitted to Ph.D. 1 require ten complementary courses

Students admitted to Ph.D. 2 require eight complementary courses

Minimum of two courses from the following:

PHIL 651 (3) Seminar: Ancient Philosophy 2
PHIL 656 (3) Medieval Philosophy
PHIL 661 (3) Seminar: 18th Century Philosophy
PHIL 667 (3) Seminar: 19th Century Philosophy
PHIL 675 (3) Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 643 (3) Seminar: Medical Ethics
PHIL 644 (3) Political Theory
PHIL 648 (3) Seminar: Philosophy of Law

and/or any other course at the 500 level or higher in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 606 (3) Seminar: Philosophy of Mind
PHIL 610 (3) Seminar on Advanced Logic 2
PHIL 611 (3) Seminar: Philosophy of Logic and Mathematics
PHIL 615 (3) Seminar: Philosophy of Language
PHIL 619 (3) Seminar: Epistemology
PHIL 621 (3) Seminar: Metaphysics
PHIL 670 (3) Seminar: Contemporary Analytic Philosophy

and/or any other course at the 500, 600, or 700 level in Metaphysics and Epistemology recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

One course chosen from the following:

ENVR 519 (3) Global Environmental Politics
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment 4

or other course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

The remaining course(s) must be at the 500, 600, or 700 level and are to be chosen in consultation with the student's advisory committee.

Language Requirement
One research language at the advanced level or two research languages at the intermediate level.

3.11.18.8 Doctor of Philosophy (Ph.D.) Philosophy: Gender and Women’s Studies
The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Philosophy who wish to earn 9 additional credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 607</td>
<td>6</td>
<td>Pro-Seminar 1</td>
</tr>
<tr>
<td>PHIL 682</td>
<td>6</td>
<td>Pro-Seminar 3</td>
</tr>
<tr>
<td>PHIL 685</td>
<td>3</td>
<td>Fundamentals of Logic</td>
</tr>
<tr>
<td>PHIL 690</td>
<td>3</td>
<td>Candidacy Paper</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

Complementary Courses
(24-30 credits)

Students admitted to Ph.D. 1 require ten complementary courses.
Students admitted to Ph.D. 2 require eight complementary courses.

Minimum two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 651</td>
<td>3</td>
<td>Seminar: Ancient Philosophy 2</td>
</tr>
<tr>
<td>PHIL 656</td>
<td>3</td>
<td>Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 661</td>
<td>3</td>
<td>Seminar: 18th Century Philosophy</td>
</tr>
<tr>
<td>PHIL 667</td>
<td>3</td>
<td>Seminar: 19th Century Philosophy</td>
</tr>
<tr>
<td>PHIL 675</td>
<td>3</td>
<td>Seminar: Contemporary European Philosophy</td>
</tr>
</tbody>
</table>

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 642</td>
<td>3</td>
<td>Seminar: Feminist Theory</td>
</tr>
<tr>
<td>PHIL 643</td>
<td>3</td>
<td>Seminar: Medical Ethics</td>
</tr>
<tr>
<td>PHIL 644</td>
<td>3</td>
<td>Political Theory</td>
</tr>
<tr>
<td>PHIL 648</td>
<td>3</td>
<td>Seminar: Philosophy of Law</td>
</tr>
</tbody>
</table>
and/or any other course at the 500, 600, or 700 level in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 606</td>
<td>Seminar: Philosophy of Mind</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 610</td>
<td>Seminar on Advanced Logic 2</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 611</td>
<td>Seminar: Philosophy of Logic and Mathematics</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 615</td>
<td>Seminar: Philosophy of Language</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 619</td>
<td>Seminar: Epistemology</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 621</td>
<td>Seminar: Metaphysics</td>
<td>(3)</td>
</tr>
<tr>
<td>PHIL 670</td>
<td>Seminar: Contemporary Analytic Philosophy</td>
<td>(3)</td>
</tr>
</tbody>
</table>

and/or any other course at the 500, 600, or 700 level in Metaphysics and Epistemology recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

One additional course selected from the list of Women's Studies graduate course offerings (below), or other graduate option-approved courses from participating departments.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 501</td>
<td>Advanced Topics 1</td>
<td>(3)</td>
</tr>
<tr>
<td>WMST 513</td>
<td>Gender, Race and Science</td>
<td>(3)</td>
</tr>
</tbody>
</table>

The remaining course(s) must be at the 500, 600, or 700 level and are to be chosen in consultation with the student's advisory committee.

**Language Requirement**

One research language at the advanced level or two research languages at the intermediate level.

### 3.11.19 Political Science

**3.11.19.1 Location**

Department of Political Science  
Stephen Leacock Building, Room 414  
855 Sherbrooke Street West  
Montreal QC H3A 2T7  
Canada  
Telephone: 514-398-4800  
Website: [www.mcgill.ca/politicalscience](http://www.mcgill.ca/politicalscience)

**3.11.19.2 About Political Science**

The Department offers programs leading to the M.A. (with or without thesis) and Ph.D. degrees. These programs combine depth of specialization in a particular field with breadth of knowledge in related fields. The staff offers courses and supervises research on most of the important areas of political science. Students may specialize in any of the following:

- Canadian Government and Politics;
- Comparative Politics;
- Political Theory; or
- International Relations.

M.A. graduates gain the scholarly preparation required to proceed to the Ph.D. program at McGill or elsewhere. Alternatively, the M.A. degree prepares graduates for teaching at the college level, for advanced study in other disciplines, or for rewarding jobs in government and in the private sector. Students in the M.A. program may choose either the Research Essay option or the Thesis option. Both options are generally recognized as among the most demanding and rewarding in Canada.

Besides its traditional M.A. program, the Department also offers M.A. options in Development Studies, Gender and Women’s Studies, and European Studies. Interested students must apply and be accepted to both the political science M.A. program and to the option program.

Graduate students can benefit from expertise and advanced scholarship in such diverse research areas as:
• Electoral Studies;
• Comparative Federalism;
• Constitutional Theory and Practice;
• International Peace and Security Studies;
• International Development;
• Nations and Nationalism;
• Health and Social Policy;
• Identity Politics.

For a full list of our affiliated research centres and institutes, please consult our website: www.mcgill.ca/politicalscience/about-us/centres.

Changes may take place after this content is published. Students are advised to contact the Department Office for supplementary information, which may be important to their choice of program.

Master's Programs

Students may select a program with the Thesis or the Non-Thesis (Research Project) option in completing M.A. degree requirements. They may switch from one option to the other while completing their coursework.

section 3.11.19.5: Master of Arts (M.A.) Political Science (Thesis) (45 credits)

The M.A. program is generally recognized as among the most demanding and rewarding in Canada. A main purpose of the M.A. degree is to demonstrate an ability to design and execute with competence a major piece of research, comparable to a full length article in a scholarly journal. The length will vary with the nature of the topic. A thesis that contains considerable data analysis might be well developed in 50 pages, while an institutional or historical study would generally be longer.

section 3.11.19.6: Master of Arts (M.A.) Political Science (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross disciplinary M.A. program offered within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students take an interdisciplinary seminar (INTD 657 Development Studies Seminar) that will be co taught by professors from two different disciplines and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO Coordinating Committee. Students interested in development will benefit from the expertise provided by the Institute for the Study of International Development. For more information on the Institute, see www.mcgill.ca/isid/teaching-programs/graduate/development-studies.

section 3.11.19.7: Master of Arts (M.A.) Political Science (Thesis): European Studies (45 credits)

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students will take an interdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. Students enter through one of the participating departments and must meet the requirements of that unit. The M.A. thesis must be on a topic relating to European Studies, approved by the ESO coordinating committee. Knowledge of French, while not a prerequisite, is an important asset for admission and will be encouraged as part of the program, as will knowledge of a third European language.

section 3.11.19.8: Master of Arts (M.A.) Political Science (Non-Thesis) (45 credits)

The M.A. program is generally recognized as among the most demanding and rewarding in Canada. Students in the non-thesis program will submit a research essay. The research essay will normally be based on a paper written for a graduate seminar or an independent reading course. The research essay requirement also applies to each of the non-thesis options listed below.

section 3.11.19.9: Master of Arts (M.A.) Political Science (Non-Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross disciplinary M.A. program offered within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students take an interdisciplinary seminar that will be co taught by professors from two different disciplines (INTD 657 Development Studies Seminar) and a variety of graduate-level courses on international development issues. Students interested in development will benefit from the expertise provided by the Institute for the Study of International Development. For more information on the Institute, see www.mcgill.ca/isid/teaching-programs/graduate/development-studies.

section 3.11.19.10: Master of Arts (M.A.) Political Science (Non-Thesis): European Studies (45 credits)

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration,
section 3.11.19.10: Master of Arts (M.A.) Political Science (Non-Thesis): European Studies (45 credits)

broadly understood. Students enter through one of the participating departments and must meet the requirements of that unit. Students will take an
terdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. Knowledge of French, while not
a prerequisite, is an important asset for admission and will be encouraged as part of the program, as will knowledge of a third European language.

section 3.11.19.11: Master of Arts (M.A.) Political Science (Non-Thesis): Gender and Women's Studies (45 credits)

The Gender and Women's Studies Option offers McGill graduate students who meet the degree requirements in a participating unit and who wish to earn
6 credits of approved coursework, a cross disciplinary specialization in feminist, and gender and/or women's studies, deploying a wide array of disciplinary
methodologies and modes of inquiry. The student's research paper must be on a topic centrally focused on gender and/or women's studies. See


This program is currently not offered.

The Social Statistics Option complements disciplinary training with research experience applying statistical methods to Statistics Canada data or equivalent.
Students complete course requirements, supplemented by further statistical courses, as advised by the Option Adviser, and subject to approval by the
Department, and a statistics based M.A. research paper in conjunction with an interdisciplinary capstone seminar. See www.mcgill.ca/socialstatistics.
Entrance to this option is by application to the Social Statistics Option Committee subsequent to acceptance into the Departmental program.
A research paper is required to demonstrate proficiency in research. It is normally about 50 pages in length and involves revision of a paper written for
one of the graduate courses completed in the program. The research paper is evaluated by two faculty members in the Department.

Ph.D. Programs

section 3.11.19.13: Doctor of Philosophy (Ph.D.) Political Science

The doctoral program is designed to give students the necessary foundation for making original contributions to knowledge. Graduate courses provide
students with analytical and theoretical tools used in particular subfields. This general training includes specialized training in research methods. Recent
graduates of our doctoral program are pursuing diverse employment opportunities; see: www.mcgill.ca/politicalscience/grad/news.

section 3.11.19.14: Doctor of Philosophy (Ph.D.) Political Science: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Political Science
and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods.

This option is a cross-disciplinary specialization run by the McGill Institute for Gender, Sexuality, and Feminist Studies. The student's doctoral thesis must
be on a topic centrally related to gender and/or women's studies. For more information on the option, see www.mcgill.ca/igsf/programs/gws.

3.11.19.3 Political Science Admission Requirements and Application Procedures
3.11.19.3.1 Admission Requirements

The graduate Admissions Committee only considers applications from those who already have an undergraduate academic degree in political science or a
closely related field (e.g., international studies, sociology, philosophy for prospective political theorists, etc.). Those without this required background
occasionally enrol as Special Students in the undergraduate program and take upper-level undergraduate courses in order to build the academic record
necessary to apply to the graduate program.

Master's

Students holding a B.A. degree may be eligible for admission to the M.A. program. Preparation equivalent to a McGill Honours degree in Political Science
is desirable.

Ph.D.

Students holding a master's degree in political science may be eligible for admission to the Ph.D. program. In some instances, outstanding students with a
B.A. in Political Science may be admitted directly into the Ph.D. program without having completed an M.A. degree. They will be considered Ph.D. 1.

Reference Letters

All applicants, including those who have done their undergraduate work at McGill, must submit two letters of reference. It is recommended that you contact
your referees at least a month in advance of the deadline. Applications that do not have references by January 15 will not be considered.

GRE and TOEFL Exams

 GRE results are required for applications to the doctoral program. Use codes McGill 0935 – Political Science 1999. The test should be written well in advance
of the application deadline. GRE results are not required for students applying to the master's program.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized
foreign institution where English is the language of instruction or from a recognized Canadian/American institution (anglophone or francophone), must submit
TOEFL scores. A minimum score of 100 on the Internet-based test (iBT), with each component score not less than 20, or 600 on the paper-based test
is required for admission. Please use the codes McGill 0935 – Political Science 89 when writing the TOEFL exam. The IELTS (International English Language Testing Systems) with a minimum overall band of 6.5 is also acceptable. Files will not be considered unless TOEFL/IELTS scores are received before the application deadline (January 15). IELTS test scores must be sent electronically by IELTS directly to McGill University using the McGill code 0935.

For more information, consult the GRE, TOEFL, and IELTS websites.

3.11.19.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.19.31 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Statement – maximum one (1) page single-spaced, a concise academic statement
- Writing Sample – Ph.D. only
- GRE – required for applications to the Ph.D.

3.11.19.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Political Science and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Completed applications (including all supporting documentation listed above) for all graduate programs in Political Science must be received by January 15. For detailed information, please see the Graduate Applicant Checklist at www.mcgill.ca/politicalscience/grad/gradformsdocs.

3.11.19.4 Political Science Faculty

Chair
Hudson Meadwell

Director of Graduate Program
Erik Kuhonta

Emeritus Professor
Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)

Professors
Éric Bélanger; B.A., M.A.(Laval), Ph.D.(Montr.)
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)
Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)
Elisabeth Gidengil; B.A.(LSE), M.A.(NYU), Ph.D.(McG.) (Hiram Mills Chair)
Juliet Johnson; B.A.(Stan.), M.A., Ph.D.(Princ.)
Jacob Levy; A.B.(Brown), M.A., Ph.D.(Princ.) (Tomlinson University Chair)
Antonia Maioni; M.A.(Car.), Ph.D.(N’western)
**Professors**

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*)

Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*William Dawson Scholar*)

Filippo Sabetti; B.A.(McM.), M.A., Ph.D.(Ind.)

Richard Schultz; B.A.(York), M.A.(Manc.), Ph.D.(York)

Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.)

Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)

Harold M. Waller; M.S.(N’western), Ph.D.(G’town)

**Associate Professors**

Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.)

Victor Muñiz Fraticelli; B.A.(Cornell), J.D.(Puerto Rico), M.A., Ph.D.(Chic.)

Erik Kuhonta; B.A.(Penn.), M.A., Ph.D.(Princ.)

Catherine Lu; B.A., M.A.(Br. Col.), Ph.D.(Tor.)

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.)

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G’town) (*William Dawson Scholar*)

Maria Popova; B.A.(Dart.), Ph.D.(Harv.)

Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.)

**Assistant Professors**

Leonardo Baccini; M.A.(Bologna), Ph.D.(Trinity Coll., Dublin)

Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin)

Megan Bradley; M.A.(St. And.), M.Sc., D.Phil.(Oxf.)

Aaron Erlich; M.A.(G’town), M.A.(Wash.), Ph.D.(Wash.)

Kelly Gordon; B.A.(Calg.), M.A., Ph.D.(Ott.)

Fernando Nuñez-Mietz; B.A.(Univ. de San Andrés, Argentina), M.A., Ph.D.(Ohio St.)

William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)

Hamish van der Ven; M.A.(Br. Col.), Ph.D.(Tor.)

Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)

Yves Winter; B.Sc.(LSE), M.A.(Paris X), Ph.D.(Calif., Berk.)

**Associate Members**

Benjamin Forest; M.A., Ph.D.(Calif.-LA)

Daniel Weinstock; M.A.(McG.), D.Phil.(Oxf.)

**Academic Associates**

Sara Maria Loui Vissers; M.A., Ph.D.(Catholic U. of Leuven)

Heidi Hoernig; M.A., Ph.D.(Wat.)

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**3.11.19.5 Master of Arts (M.A.) Political Science (Thesis) (45 credits)**

**Thesis Courses (24 credits)**

A thesis is required to demonstrate proficiency in research. It is normally about 100 pages long and is subject to evaluation by one examiner internal to the Department and one examiner external to the Department.
Required Course (6 credits)

POLI 691  (6)  Bibliographic Methods 1

Complementary Courses (15 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612  (3)  Research Methods in Political Science

or a more suitable advanced course

or, one of the following courses:

POLI 561  (3)  Seminar: Political Theory
POLI 613  (3)  Selected Themes: Political Theory
POLI 614  (3)  Classical Political Thought
POLI 616  (3)  Modern Political Analysis
POLI 617  (3)  Problems in Political Theory

9-12 credits of 500- or 600-level courses as determined by the student's area of study.

Of the 15 credits of complementary courses, up to 3 credits may be outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.19.6 Master of Arts (M.A.) Political Science (Thesis): Development Studies (45 credits)

Thesis Courses (24 credits)

POLI 697  (12)  M.A. Thesis Proposal
POLI 698  (12)  Master's Thesis Submission

Required Courses (9 credits)

INTD 657  (3)  Development Studies Seminar
POLI 691  (6)  Bibliographic Methods 1

Complementary Courses (12 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612  (3)  Research Methods in Political Science

or a suitable more advanced 500- or 600-level course or one of the following courses:

POLI 561  (3)  Seminar: Political Theory
POLI 613  (3)  Selected Themes: Political Theory
POLI 614  (3)  Classical Political Thought
6-9 credits of 500- or 600-level courses. A course list is available from the Department.

Of the 12 credits of complementary courses, up to 3 credits may be taken from outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.19.7 Master of Arts (M.A.) Political Science (Thesis): European Studies (45 credits)

Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 697</td>
<td>12</td>
<td>M.A. Thesis Proposal</td>
</tr>
<tr>
<td>POLI 698</td>
<td>12</td>
<td>Master's Thesis Submission</td>
</tr>
</tbody>
</table>

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 659</td>
<td>3</td>
<td>Interdisciplinary Seminar in European Studies</td>
</tr>
<tr>
<td>POLI 691</td>
<td>6</td>
<td>Bibliographic Methods 1</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)

3-6 credits, either of the following 3-credit options, or preferably both:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 612</td>
<td>3</td>
<td>Research Methods in Political Science</td>
</tr>
</tbody>
</table>

or a suitable more advanced 500- or 600-level course.

or one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 561</td>
<td>3</td>
<td>Seminar: Political Theory</td>
</tr>
<tr>
<td>POLI 613</td>
<td>3</td>
<td>Selected Themes: Political Theory</td>
</tr>
<tr>
<td>POLI 614</td>
<td>3</td>
<td>Classical Political Thought</td>
</tr>
<tr>
<td>POLI 616</td>
<td>3</td>
<td>Modern Political Analysis</td>
</tr>
<tr>
<td>POLI 617</td>
<td>3</td>
<td>Problems in Political Theory</td>
</tr>
</tbody>
</table>

3-6 credits from the following group of courses on European politics:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 619</td>
<td>3</td>
<td>Immigrants / Refugees / Minorities</td>
</tr>
<tr>
<td>POLI 628</td>
<td>3</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>POLI 629</td>
<td>3</td>
<td>Post-Communist Transformations</td>
</tr>
<tr>
<td>POLI 630</td>
<td>3</td>
<td>Topics in European Politics</td>
</tr>
<tr>
<td>POLI 639</td>
<td>3</td>
<td>Politics of Developed Areas</td>
</tr>
<tr>
<td>POLI 651</td>
<td>3</td>
<td>The EU and Political Integration</td>
</tr>
<tr>
<td>POLI 680</td>
<td>3</td>
<td>Social Change/Advanced Industrialized Democracies</td>
</tr>
</tbody>
</table>

3-6 credits at the 500, 600, or 700 level in courses in political science. A course list is available from the Department.

Of the 12 credits of complementary courses, up to 3 credits may be taken outside the Department.
Candidates for the M.A. degree follow an individual program approved by the Department.

3.11.19.8 Master of Arts (M.A.) Political Science (Non-Thesis) (45 credits)

Research Project (18 credits)

POLI 693 (3) M.A. Research Proposal
POLI 694 (3) Research Preparation 1
POLI 695 (3) Research Preparation 2
POLI 696 (3) Research Preparation 3
POLI 699 (6) Master's Research Essay

Required Course (6 credits)

POLI 691 (6) Bibliographic Methods 1

Complementary Courses (21 credits)

3-6 credits, either of the following 3-credit options, or preferably, both:

POLI 612 (3) Research Methods in Political Science

or a suitable more advanced course.

One of the following courses:

POLI 561 (3) Seminar: Political Theory
POLI 613 (3) Selected Themes: Political Theory
POLI 614 (3) Classical Political Thought
POLI 616 (3) Modern Political Analysis
POLI 617 (3) Problems in Political Theory

15-18 credits of 500- or 600-level courses; up to 6 credits may be outside the Department.

3.11.19.9 Master of Arts (M.A.) Political Science (Non-Thesis): Development Studies (45 credits)

Research Project (18 credits)

POLI 693 (3) M.A. Research Proposal
POLI 694 (3) Research Preparation 1
POLI 695 (3) Research Preparation 2
POLI 696 (3) Research Preparation 3
POLI 699 (6) Master's Research Essay

Required Courses (9 credits)

INTD 657 (3) Development Studies Seminar
POLI 691 (6) Bibliographic Methods 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:
Research Methods in Political Science

or a suitable more advanced 500- or 600-level course.

One of the following courses:

POLI 561  (3)  Seminar: Political Theory
POLI 613  (3)  Selected Themes: Political Theory
POLI 614  (3)  Classical Political Thought
POLI 616  (3)  Modern Political Analysis
POLI 617  (3)  Problems in Political Theory

12-15 credits of additional 500- or 600-level courses related to international development studies. Course list is available from the Department.

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program in international development studies approved by the Department.

3.11.19.10 Master of Arts (M.A.) Political Science (Non-Thesis): European Studies (45 credits)

Research Project (18 credits)

POLI 693  (3)  M.A. Research Proposal
POLI 694  (3)  Research Preparation 1
POLI 695  (3)  Research Preparation 2
POLI 696  (3)  Research Preparation 3
POLI 699  (6)  Master's Research Essay

Required Courses (9 credits)

POLI 659  (3)  Interdisciplinary Seminar in European Studies
POLI 691  (6)  Bibliographic Methods 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612  (3)  Research Methods in Political Science

or a suitable more advanced 500- or 600-level course

or one of the following courses:

POLI 561  (3)  Seminar: Political Theory
POLI 613  (3)  Selected Themes: Political Theory
POLI 614  (3)  Classical Political Thought
POLI 616  (3)  Modern Political Analysis
POLI 617  (3)  Problems in Political Theory

6-9 credits from the following group of courses on European Politics:

POLI 619  (3)  Immigrants / Refugees / Minorities
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 628</td>
<td>3</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>POLI 629</td>
<td>3</td>
<td>Post-Communist Transformations</td>
</tr>
<tr>
<td>POLI 630</td>
<td>3</td>
<td>Topics in European Politics</td>
</tr>
<tr>
<td>POLI 639</td>
<td>3</td>
<td>Politics of Developed Areas</td>
</tr>
<tr>
<td>POLI 651</td>
<td>3</td>
<td>The EU and Political Integration</td>
</tr>
<tr>
<td>POLI 680</td>
<td>3</td>
<td>Social Change/Advanced Industrialized Democracies</td>
</tr>
</tbody>
</table>

3-6 credits at the 500, 600, or 700 level in courses in the Department. A course list is available from the Department.

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

### 3.11.19.11 Master of Arts (M.A.) Political Science (Non-Thesis): Gender and Women's Studies (45 credits)

#### Research Project (18 credits)
- POLI 693 (3) M.A. Research Proposal
- POLI 694 (3) Research Preparation 1
- POLI 695 (3) Research Preparation 2
- POLI 696 (3) Research Preparation 3
- POLI 699 (6) Master's Research Essay

#### Required Courses (9 credits)
- POLI 691 (6) Bibliographic Methods 1
- WMST 601 (3) Feminist Theories and Methods

#### Complementary Courses (18 credits)
3-6 credits, either of the following 3-credit options, or preferably, both:
- POLI 612 (3) Research Methods in Political Science

or a suitable more advanced course at the graduate level.

or one of the following courses:
- POLI 561 (3) Seminar: Political Theory
- POLI 613 (3) Selected Themes: Political Theory
- POLI 614 (3) Classical Political Thought
- POLI 616 (3) Modern Political Analysis
- POLI 617 (3) Problems in Political Theory

9-12 credits at the 500- or 600-level as determined by the student's area of study.

3 additional credits in gender/women's studies, either:
- WMST 602 (3) Feminist Research Symposium

or another approved course on gender/women’s studies.
Note: Should the "other" approved gender/women's studies course be taken in the Department of Political Science, the student is eligible to take a 500- or 600-level course as determined by the student's area of study outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.


This program is currently not offered.

**Research Project (18 credits)**

- POLI 693 (3) M.A. Research Proposal
- POLI 694 (3) Research Preparation 1
- POLI 695 (3) Research Preparation 2
- POLI 696 (3) Research Preparation 3
- POLI 699 (6) Master's Research Essay

**Required Course (6 credits)**

- POLI 691 (6) Bibliographic Methods 1

**Complementary Courses (21 credits)**

3 credits chosen from the following:

- ECON 688 (3) Seminar on Social Statistics
- POLI 688 (3) Seminar on Social Statistics

3-6 credits, either of the following 3-credit options, or preferably both:

- POLI 612 (3) Research Methods in Political Science

or a suitable more advanced course.

One of the following:

- POLI 561 (3) Seminar: Political Theory
- POLI 613 (3) Selected Themes: Political Theory
- POLI 614 (3) Classical Political Thought
- POLI 616 (3) Modern Political Analysis
- POLI 617 (3) Problems in Political Theory

12-15 credits of 500- or 600-level POLI courses; up to 6 credits in related disciplines may be allowed if they are appropriate to the program.

Candidates for the M.A. degree follow a program approved on an individual basis by the Department.

3.11.19.13 Doctor of Philosophy (Ph.D.) Political Science

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**
Complementary Courses (13 courses)
13 courses at the 500, 600, or 700 level chosen as follows:

Major Fields: 8 courses
Four courses chosen in first major field.
Four courses chosen in second major field.
Note: One course out of the eight must be a 700-level research seminar in one of the major fields.

Political Theory: 1 course
One course in political theory at the 500, 600, or 700 level.

Methods: 1 course
POLI 612 (3) Research Methods in Political Science
or another suitable Advanced Methods course.

Additional Courses: 3 courses
Three additional courses of which at least one must be outside the student's major fields.

Advanced Research Tools
Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language to fulfill this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Statistical Methods: To fulfill this requirement, students must complete a course (at the 500, 600, or 700 level) in advanced statistical methods.

3.11.19.14 Doctor of Philosophy (Ph.D.) Political Science: Gender and Women's Studies

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 701</td>
<td>0</td>
<td>Ph.D. General Written Examination First Field</td>
</tr>
<tr>
<td>POLI 702</td>
<td>0</td>
<td>Ph.D. General Written Examination Second Field</td>
</tr>
<tr>
<td>POLI 799</td>
<td>0</td>
<td>Ph.D. Oral Comprehensive Examination</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

Complementary Courses (33 credits)
11 (3-credit) courses at the 600 level or higher chosen as follows:

Major Fields
24 credits selected as follows:
12 credits in the first major field.
12 credits in the second major field.
Note: 3 credits out of the 24 credits must be a 700-level research seminar in one of the major fields.

Political Theory
3 credits in political theory at the 500, 600, or 700 level.

Methods
3 credits of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 612</td>
<td>Research Methods in Political Science</td>
</tr>
</tbody>
</table>

Gender Courses
3 credits at the 500 level or higher from the list of complementary courses offered by the graduate option in Gender and Women's Studies.

Advanced Research Tools
Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language to fulfil this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Statistical Methods: To fulfil this requirement, students must complete a course (at the 500 level or higher) in advanced statistical methods.

3.11.20 Psychology

3.11.20.1 Location

Department of Psychology
2001 McGill College Avenue, 7th Floor
Montreal QC H3A 1G1
Canada
Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: gradsec@ego.psych.mcgill.ca
Website: www.mcgill.ca/psychology

3.11.20.2 About Psychology

The aim of the Experimental program is to provide students with an environment in which they are free to develop skills and expertise that will serve during a professional career of teaching and research as a psychologist. Coursework and other requirements are at a minimum. Success in the program depends on the student's ability to organize unscheduled time for self education. Continuous involvement in research planning and execution is considered a very important component of the student's activities. Students are normally expected to do both master's and doctoral study.

M.A. and M.Sc. degrees may be awarded in Experimental Psychology, but only as a step to the Ph.D.—students undergo formal evaluation beginning with the submission of their master's requirements (thesis or fast-track paper) to enter Ph.D. 2.

The Clinical program adheres to the scientist practitioner model and as such is designed to train students for careers in university teaching or clinical research, and for service careers (working with children or adults in hospital, clinical, or educational settings). Most of our clinical graduates combine service and research roles. While there are necessarily many more course requirements than in the Experimental program, the emphasis is again on research training. There is no master's program in Clinical Psychology; the Department offers direct entry to a doctoral degree for holders of an undergraduate degree, and students are expected to complete the full program leading to a doctoral degree.

Research interests of members of the Psychology Department include:

- animal learning;
- behavioural neuroscience;
- clinical;
- child development;
- cognitive science;
Facilities for advanced research in a variety of fields are available within the Department itself. In addition, arrangements exist with the Departments of Psychology at the Montreal Neurological Institute and Hospital, Allan Memorial Institute, Douglas Mental Health University Institute, Jewish General Hospital, Montreal Children's Hospital, and the Montreal General Hospital, to permit graduate students to undertake research in a hospital setting.

Note: Many MUHC-affiliated hospitals and institutes are now located at the Glen site; further information is available on the MUHC website.

For inquiries about all programs and financial aid, and for application forms, contact the Graduate Program Coordinator, Department of Psychology.

Ph.D. Option in Behavioural Neuroscience

Information about this option is available from the Department and at http://www.mcgill.ca/psychology/research-0/behavioral-neuroscience.

Ph.D. Option in Language Acquisition (LAP)

Information about this option is available from the Department and at www.psych.mcgill.ca/lap.html and www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities.

Ph.D. Option in Psychosocial Oncology (PSO)

A cross-disciplinary option in Psychosocial Oncology is offered within the existing Ph.D. program in Psychology. Information about this option is available from the Department and at www.medicine.mcgill.ca/oncology/programs/programs_psychosocialoncology.asp and www.mcgill.ca/psychology/graduate/program-tracks/clinical/additional-program-opportunities.

Science > Graduate > Browse Academic Units & Programs > Psychology > section 14.11.9.7: Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

The Ph.D in Psychology: Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise, the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes.

Science > Graduate > Browse Academic Units & Programs > Psychology > section 14.11.9.8: Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

Science > Graduate > Browse Academic Units & Programs > Psychology > section 14.11.9.9: Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology

The Department of Oncology, in conjunction with the Ingram School of Nursing, the Department of Psychology and the School of Social Work, has developed the cross-disciplinary Psychosocial Oncology Option (PSOO). This option is open to doctoral students in the Ingram School of Nursing and in the Department of Psychology who are interested in broadening their knowledge of psychosocial issues in oncology.
3.11.20.3 Psychology Admission Requirements and Application Procedures

3.11.20.3.1 Admission Requirements

Admission to the graduate program depends on an evaluation of students' research interests and their aptitude for original contributions to knowledge and, if applicable, for professional contributions in the applied field.

The usual requirement for admission is an Honours or majors degree (B.A. or B.Sc.) in Psychology. This usually includes an introductory course plus twelve courses in psychology (each equivalent to three term hours). Courses in experimental psychology, the theoretical development of modern ideas in psychology, and statistical methods as applied to psychological problems (equivalent to an introductory course) are essential. Applicants' knowledge of relevant biological, physical, and social sciences is considered. Students applying to the clinical program are advised to complete 42 specific undergraduate credits in psychology as specified by the Order of Psychologists of Quebec (Ordre des psychologues du Québec).

Applicants who hold a bachelor's degree but who have not met these usual requirements should consult the Graduate Program Director to determine which (if any) courses must be completed before an application can be considered. Students with insufficient preparation for graduate work may register as Special Students (undergraduate level) in the Faculty of Arts or the Faculty of Science, and follow an appropriate course of study. Such registration requires the permission of the Department but carries no advantage with respect to a student's eventual admission to graduate studies.

Applicants should note that the deadline for many scholarships and fellowships is about four months earlier than the application deadlines and that applications for scholarships and fellowships should be submitted through their home university.

Applicants must take the GRE General Test if they have studied in an English-speaking university. For those who have a psychology background, it is recommended to take the Subject component of the GRE. Applicants with little or no background in psychology are not required to submit scores on the Subject component of the GRE. Canadians who have not studied in an English-speaking university are not required to submit the GRE General Test and Subject component.

Note: Official transcripts need not be included as part of an application; they will only be requested once applicants are formally accepted into the program.

3.11.20.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

3.11.20.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Three letters of reference
- Personal Statement
- Curriculum Vitae
- Graduate Record Examination (GRE) – See above for details.

3.11.20.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Psychology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.20.4 Psychology Faculty

Chair

J. Lydon
| **Graduate Program Director** |  
| D. Titone |
| **Clinical Program Director** |  
| B. Ditto |
| **Undergraduate Program Director** |  
| G. O'Driscoll |

**Emeritus Professors**

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)
A.S. Bregman; M.A.(Tor.), Ph.D.(Yale)
D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(Cornell)
K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)
F.H. Genesee; B.A.(W. Ont.); M.A., Ph.D.(McG.)
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)
A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)
R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) (*E.P. Taylor Emeritus Professor of Psychology*)
P. Milner; B.Sc.(Leeds), M.Sc., Ph.D.(McG.)
D.S. Moskowitz; B.S.(Kirkland); M.A., Ph.D.(Conn.)
Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)
R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)
J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)
B. Sherwin; B.A., M.A., Ph.D.(C’dia) (*Canada Research Chair in Hormones, Brain and Cognition*)
Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)
D.M. Taylor; M.A., Ph.D.(W. Ont.)
N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

**Retired**

Andrew G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)
M.J. Mendelson; B.Sc.(McG.), M.A., Ph.D.(Harv.)

**Professors**

M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)
I.M. Binik; B.A.(NYU), M.A., Ph.D.(Penn.)
B. Ditto; B.S.(Iowa), Ph.D.(Ind.)
B. Knauper; D.Phil.(Mannheim)
R. Koestner; B.A., Ph.D.(Roch.)
H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (*James McGill Professor*)
J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)
J. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (*E.P. Taylor Professor of Psychology*) (*Canada Research Chair in Genetics of Pain*)
K. Nader; B.Sc., Ph.D.(Tor.) (*James McGill Professor*)
D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)
C. Palmer; B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(Cornell) (*Canada Research Chair in Cognitive Neuropsychology Performance*)
M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)
Professors
T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)
M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia)
D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton)
D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

Associate Professors
J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)
M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)
G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) (William Dawson Scholar)
K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)
J. Ristic; B.A., M.A., Ph.D.(Br. Col.) (William Dawson Scholar)

Assistant Professors
R. Bagot; B.Sc.(S. Wales), Ph.D.(McG.)
J. Britt; B.A.(Colo.), Ph.D(Balt.)
C. Falk; B.Sc.(Wisc.), M.A., Ph.D.(Br. Col)
J. Flake; B.Sc.(NKU), M.A.(JMU), Ph.D.(Conn.)
O. Hardt; B.Sc., M.Sc.(Trier), Ph.D.(Ariz.)
E. Hehman; B.A.(Mass.), Ph.D.(Delaware)
L. Human; B.A., M.A., Ph.D.(Br. Col.)
R. Otto; B.Sc.(Calif.), Ph.D.(Texas)
S. Racine; B.Sc.(McG.), M.A., Ph.D.(Mich. St.)
M. Roy; B.Sc., Ph.D.(Montr.)
S. Sheldon; B.Sc.(Alta.), M.A., Ph.D.(Tor.)
D. Vachon; B.Sc.(Tor.), M.Sc., Ph.D.(Purd.)
A. Weinberg; B.A.(Wesl.), M.A., Ph.D.,(Stony Brook) (Canada Research Chair)

Lecturer
P. Carvajal

Professionals
Rhonda Amsel; B.Sc., M.Sc.(McG.) (Associate)
Ian F. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (Assistant)
Judith LeGallais; B.A., M.A., Ph.D.(McG.) (Faculty Lecturer)
Jennifer Russell; B.A., Ph.D.(McG.) (Assistant)

Associate Members
Anesthesia: T. Coderre

Douglas Mental Health University Institute Research Centre: S. King, N. Rajah, H. Steiger

Jewish General Hospital: B Thombs, P. Zelkowitz

McGill Vision Research Centre: C. Baker, R. Hess, F.A.A. Kingdom, K. Mullen


Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, F. Elgar, M. Leyton
Adjunct Professors


3.11.20.5 Master of Arts (M.A.) Psychology (Thesis) (45 credits)

M.A. and M.Sc. degrees may be awarded in Experimental Psychology, but only as a stage in the Ph.D. program. There is no M.A. or M.Sc. program in Clinical Psychology.

Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
<td>PSYC 690</td>
<td>15</td>
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<tr>
<td>PSYC 699</td>
<td>12</td>
<td>Masters Research 2</td>
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Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 601</td>
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<td>PSYC 650</td>
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<td>PSYC 651</td>
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<td>Psychology Theory</td>
</tr>
<tr>
<td>PSYC 660D2</td>
<td>3</td>
<td>Psychology Theory</td>
</tr>
</tbody>
</table>

3.11.20.6 Doctor of Philosophy (Ph.D.) Psychology

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

<table>
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<th>Course</th>
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<tr>
<td>PSYC 701</td>
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Complementary Courses

12-24 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PSYC 710</td>
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<td>Comparative and Physiological Psychology 1</td>
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<tr>
<td>PSYC 711</td>
<td>3</td>
<td>Comparative and Physiological Psychology 2</td>
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<td>PSYC 712</td>
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<td>3</td>
<td>Comparative and Physiological Psychology 6</td>
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<tr>
<td>PSYC 718</td>
<td>3</td>
<td>Learning and Motivation</td>
</tr>
<tr>
<td>PSYC 722</td>
<td>3</td>
<td>Personality and Social Psychology</td>
</tr>
<tr>
<td>PSYC 723</td>
<td>3</td>
<td>Personality and Social Psychology</td>
</tr>
</tbody>
</table>
PSYC 724  (3)  Personality and Social Psychology
PSYC 725  (3)  Personality and Social Psychology
PSYC 727  (3)  Personality and Social Psychology
PSYC 728  (3)  Ethics and Professional Issues
PSYC 729  (3)  Theory of Assessment
PSYC 730  (3)  Clinical Neuroscience Methods
PSYC 732  (3)  Clinical Psychology 1
PSYC 733  (3)  Clinical Psychology 2
PSYC 734  (3)  Developmental Psychology and Language
PSYC 735  (3)  Developmental Psychology and Language
PSYC 736  (3)  Developmental Psychology and Language
PSYC 740  (3)  Perception and Cognition
PSYC 741  (3)  Perception and Cognition
PSYC 742  (3)  Perception and Cognition
PSYC 743  (3)  Perception and Cognition
PSYC 744  (3)  Perception and Cognition
PSYC 746  (3)  Quantitative and Individual Differences
PSYC 747  (3)  Quantitative and Individual Differences
PSYC 748  (3)  Quantitative and Individual Differences
PSYC 749  (3)  Quantitative and Individual Differences
PSYC 752D1  (3)  Psychotherapy and Behaviour Change
PSYC 752D2  (3)  Psychotherapy and Behaviour Change
PSYC 753  (3)  Health Psychology Seminar 1
PSYC 754  (3)  Health Psychology Seminar 2
PSYC 755  (3)  Health Psychology Seminar 3
PSYC 756  (3)  Health Psychology Seminar 4

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

PSYC 650  (3)  Advanced Statistics 1
PSYC 651  (3)  Advanced Statistics 2
PSYC 660D1  (3)  Psychology Theory
PSYC 660D2  (3)  Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

** NEW PROGRAM **

3.11.20.7 Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfill similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field of Behavioural Neuroscience and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 701</td>
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<td>PSYC 781</td>
<td>(3)</td>
<td>Behavioural Neuroscience Special Topics</td>
</tr>
<tr>
<td>PSYC 782</td>
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<td>Behavioural Neuroscience Advanced Seminar</td>
</tr>
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</table>

**Complementary Courses**

6-18 credits

6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 650</td>
<td>(3)</td>
<td>Advanced Statistics 1</td>
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<tr>
<td>PSYC 651</td>
<td>(3)</td>
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<tr>
<td>PSYC 660D2</td>
<td>(3)</td>
<td>Psychology Theory</td>
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</table>

Note: The Department of Psychology does not ordinarily require an examination in a foreign language; however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

**3.11.20.8 Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition**

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (6 credits)**

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<td>PSYC 701</td>
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<td>PSYC 709</td>
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<td>SCSD 712</td>
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<td>Language Acquisition Issues 4</td>
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**Complementary Courses**

15-32 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 710</td>
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<td>Comparative and Physiological Psychology 1</td>
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<tr>
<td>PSYC 711</td>
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<td>Comparative and Physiological Psychology 2</td>
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<td>PSYC 712</td>
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<td>Comparative and Physiological Psychology 6</td>
</tr>
<tr>
<td>PSYC 718</td>
<td>(3)</td>
<td>Learning and Motivation</td>
</tr>
</tbody>
</table>
PSYC 722 (3) Personality and Social Psychology
PSYC 723 (3) Personality and Social Psychology
PSYC 724 (3) Personality and Social Psychology
PSYC 725 (3) Personality and Social Psychology
PSYC 727 (3) Personality and Social Psychology
PSYC 728 (3) Ethics and Professional Issues
PSYC 729 (3) Theory of Assessment
PSYC 730 (3) Clinical Neuroscience Methods
PSYC 732D1 (1.5) Clinical Psychology 1
PSYC 732D2 (1.5) Clinical Psychology 1
PSYC 733D1 (1.5) Clinical Psychology 2
PSYC 733D2 (1.5) Clinical Psychology 2
PSYC 734 (3) Developmental Psychology and Language
PSYC 735 (3) Developmental Psychology and Language
PSYC 736 (3) Developmental Psychology and Language
PSYC 740 (3) Perception and Cognition
PSYC 741 (3) Perception and Cognition
PSYC 742 (3) Perception and Cognition
PSYC 743 (3) Perception and Cognition
PSYC 744 (3) Perception and Cognition
PSYC 746 (3) Quantitative and Individual Differences
PSYC 747 (3) Quantitative and Individual Differences
PSYC 748 (3) Quantitative and Individual Differences
PSYC 749 (3) Quantitative and Individual Differences
PSYC 752D1 (3) Psychotherapy and Behaviour Change
PSYC 752D2 (3) Psychotherapy and Behaviour Change
PSYC 753 (3) Health Psychology Seminar 1
PSYC 754 (3) Health Psychology Seminar 2
PSYC 755 (3) Health Psychology Seminar 3
PSYC 756 (3) Health Psychology Seminar 4

At least 3 credits selected from the following list:

EDSL 620 (3) Social Justice Issues in Second Language Education
EDSL 623 (3) Second Language Learning
EDSL 624 (3) Educational Sociolinguistics
EDSL 627 (3) Instructed Second Language Acquisition Research
EDSL 629 (3) Second Language Assessment
EDSL 632 (3) Second Language Literacy Development
LING 555 (3) Language Acquisition 2
LING 590 (3) Language Acquisition and Breakdown
LING 651 (3) Topics in Acquisition of Phonology
LING 655 (3) Theory of L2 Acquisition
LING 751 (3) Advanced Seminar: Experimental 1
LING 752 (3) Advanced Seminar: Experimental 2
PSYC 545 (3) Topics in Language Acquisition
PSYC 735 (3) Developmental Psychology and Language
SCSD 619 (3) Phonological Development
SCSD 632 (3) Phonological Disorders: Children
SCSD 633 (3) Language Development
SCSD 637 (3) Developmental Language Disorders 1
SCSD 643 (3) Developmental Language Disorders 2
SCSD 652 (3) Advanced Research Seminar 1
SCSD 653 (3) Advanced Research Seminar 2
SCSD 654 (3) Advanced Research Seminar 3

0-2 from the following:
EDSL 711 (2) Language Acquisition Issues 3

0-3 credits of statistics from the following list:
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
LING 620 (3) Experimental Linguistics: Methods
PSYC 650 (3) Advanced Statistics 1
PSYC 651 (3) Advanced Statistics 2

Students who have taken an equivalent course in statistics will be deemed to have satisfied this requirement for the Language Acquisition Option.

These 3 credits are only required for students who have not previously taken an equivalent course in statistics.

0-12 credits from the following (students without a McGill master's degree need to take all 12 credits):
PSYC 650 (3) Advanced Statistics 1
PSYC 651 (3) Advanced Statistics 2
PSYC 660D1 (3) Psychology Theory
PSYC 660D2 (3) Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

3.11.20.9 Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the PSO coordinating committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)
One graduate seminar each term during Year 2 and Year 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily require an examination in a foreign language; however, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Note: If the student has a non-McGill master’s then the following courses are also required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 650</td>
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<td>Advanced Statistics 1</td>
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<tr>
<td>PSYC 651</td>
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<tr>
<td>PSYC 660D1</td>
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<td>Psychology Theory</td>
</tr>
<tr>
<td>PSYC 660D2</td>
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<td>Psychology Theory</td>
</tr>
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</table>

**Complementary Course (3 credits)**

One of the following courses:

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYC 507</td>
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<td>Emotions, Stress, and Illness</td>
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<td>PSYC 753</td>
<td>3</td>
<td>Health Psychology Seminar 1</td>
</tr>
<tr>
<td>SWRK 609</td>
<td>3</td>
<td>Understanding Social Care</td>
</tr>
<tr>
<td>SWRK 668</td>
<td>3</td>
<td>Living with Illness, Loss and Bereavement</td>
</tr>
</tbody>
</table>

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3.11.21 Quebec Studies / Études sur le Québec

3.11.21.1 Location

Quebec Studies Program / Programme d'études sur le Québec
3438 McTavish Street, Room 103
Montreal QC H3A 0E4
Canada
Telephone: 514-398-3960
Website: [www.mcgill.ca/qcst](http://www.mcgill.ca/qcst)

Director – Professor Éric Bélanger

Québec Studies Scientific Coordinator – Stéphan Gervais

3.11.21.2 About Quebec Studies / Études sur le Québec

In 1963, McGill University established a French Canada Studies program. Some of the energies and resources of the program are devoted to research on Quebec and French Canada. In 1992, the name of the program was changed to Quebec Studies to reflect its central focus. Since 2014, Quebec Studies can benefit from the network of researchers part of the McGill based Centre for Interdisciplinary Research on Montreal (CIRM) located in the same building as Quebec Studies.

The program is offered at the undergraduate level. Should their main field of study be Quebec, graduate students must apply to the relevant departments. Graduate students taking courses dealing in whole or in part with Quebec, or who are studying Quebec as their special field of study, are welcome to make use of the facilities of the Quebec Studies program.


Le Programme d’études sur le Québec offre des cours de premier cycle. Les étudiants qui désirent poursuivre des études en vue de l’obtention d’une maîtrise ou d’un doctorat sur le Québec doivent se tourner vers un département qui offre des programmes d’études supérieures.
Le Programme ouvre ses portes et ses ressources à tous les étudiants qui s’intéressent au Québec et à son étude, qu’ils soient ou non inscrits à la mineure en études québécoises.

3.11.22 Religious Studies

3.11.22.1 Location

School of Religious Studies
William and Henry Birks Building
3520 University Street
Montreal QC H3A 2A7
Canada
Telephone: 514-398-4121
Fax: 514-398-6665
Website: www.mcgill.ca/religiousstudies

3.11.22.2 About Religious Studies

The School of Religious Studies offers programs leading to the degrees of:

- Master of Arts (M.A.) (Thesis and Non-Thesis)
- Master of Arts (M.A.) (Thesis) with specialization in Bioethics
- Master of Arts (M.A.) (Thesis) with option in Gender and Women’s Studies
- Master of Sacred Theology (S.T.M.)
- Doctor of Philosophy (Ph.D.)
- An interdisciplinary option in Gender and Women's Studies is also available for doctoral students.

The areas of graduate specializations of our School are:

- Hebrew Bible and/or Old Testament Studies;
- Early Judaism;
- Greco-Roman Judaism;
- New Testament and Early Christianity;
- Church History;
- Christian Theology;
- Philosophy of Religion;
- Religious Ethics;
- Biomedical Ethics;
- Hinduism;
- Buddhism.

The many different areas of research interest among members of the School frequently require the hiring of graduate students as research assistants. The School also seeks to train young scholars in the art of lecturing/teaching; to this end it has created opportunities for Ph.D. students to teach courses in the summer and permits M.A. and Ph.D. students to work as teaching assistants. The individual programs are described below.

Adequate library and study facilities are available in the William and Henry Birks Building and elsewhere in the University for the courses listed and for research.

Language Requirements

The School of Religious Studies offers courses in primary text source languages, such as Biblical Hebrew, Aramaic, Biblical Greek, Sanskrit, Pali, Tamil, and classical literary Tibetan. The School does not guarantee instruction in any languages other than those mentioned above. Therefore, if a student wishes to have a language such as French, German, or Japanese counted as a second language, instruction may have to be sought outside the School. The successful completion of at least 12 credits at the post-secondary level in a language course, or successful completion of a language examination administered by the appropriate member of the School, will constitute evidence of the student's having the required reading knowledge of the language in question.

- M.A.

Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.
Note: The M.A. with specialization in Bioethics has no language requirement.

- **Ph.D.**

  Students are required to give their area committee evidence of reading knowledge of two languages other than English. These languages must be chosen from modern languages in which there is a significant amount of scholarship relevant to the student's area of research or classical languages relevant to the student's area of research.

  Research in some disciplines, or on certain thesis topics, may require proficiency in more than two languages besides English. In that case, additional language requirements may be stipulated by the supervisor.

- **S.T.M.**

  The S.T.M. program has no language requirement.

  **section 3.11.22.5: Master of Arts (M.A.) Religious Studies (Thesis) (45 credits)**

  The purpose of the M.A. (Thesis) degree is to encourage advanced study and research in one of the disciplines of Religious Studies for those who wish to become scholars or teachers, or will be engaged in some field of religious or public service. The M.A. (Thesis) program in Religious Studies offers a specialization in Bioethics and an option in Gender and Women's Studies.

  **section 3.11.22.6: Master of Arts (M.A.) Religious Studies (Thesis): Bioethics (45 credits)**

  The M.A. (Thesis) with specialization in Bioethics is offered in conjunction with the Bioethics Unit. Please contact the School of Religious Studies or Bioethics Unit for more information about this specialization. The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, Bioethics courses (6 credit minimum) offered by the base faculty or department, and any graduate course required or accepted by a base faculty for the granting of a master's degree, for a total of 21 credits. A minimum of 45 credits is required including the thesis.

  **section 3.11.22.7: Master of Arts (M.A.) Religious Studies (Thesis): Gender and Women's Studies (45 credits)**

  The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet degree requirements in Religious Studies (and other participating academic units and faculties) and who wish to focus on gender-related issues and feminist research and methodologies. Research focus is on a topic relating to gender issues or women’s studies.

  **section 3.11.22.8: Master of Arts (M.A.) Religious Studies (Non-Thesis) (45 credits)**

  The M.A. without thesis is intended to ensure a student's well-rounded exposure to several religions and to several of the disciplinary approaches currently used in their academic study. Particular to this program is its ability to provide the student with the opportunity to develop three different research papers with reference to the student's own interests in Religious Studies, under the supervision of professors from various parts of the University.

  **section 3.11.22.9: Master of Sacred Theology (S.T.M.) Religious Studies (Non-Thesis) (45 credits)**

  The S.T.M. is meant for those who intend to enter the ministry of the Christian Church or another religious institution, or proceed to a teaching career or to some form of social work. This degree enables students to specialize in one area or discipline of theological study before or after the third year of the M.Div. and is unique in Canada. The S.T.M. program is fully accredited by the Association of Theological Schools in the U.S. and Canada.

  **section 3.11.22.10: Doctor of Philosophy (Ph.D.) Religious Studies**

  The purpose of the Ph.D. program is to engage students in advanced academic studies normally in preparation for an academic career. The community of graduate scholars in this program is engaged in a broad spectrum of critical research involving any number of interdisciplinary approaches conducted on a number of different religious traditions. The faculty members are committed to the training of teaching scholars, making the School of Religious Studies one of few schools that prioritizes offering graduate students opportunities under faculty supervision to teach/lecture during their time in the program.

  **section 3.11.22.11: Doctor of Philosophy (Ph.D.) Religious Studies: Gender and Women’s Studies**

  The graduate option in Gender and Women's Studies is an interdisciplinary program for students meeting the degree requirements in Religious Studies who wish to focus on gender-related issues and feminist research and methodologies. Research focus is on a topic relating to gender issues or women’s studies. Please contact the School for more information about this option.

3.11.22.3 Religious Studies Admission Requirements and Application Procedures
3112231 Admission Requirements

Master of Arts (M.A.) Thesis
Applicants must possess a B.A. with a Major or Honours in Religious Studies or a Bachelor of Theology (B.Th.), or a Master of Divinity (M.Div.) degree, normally with a minimum CGPA of 3.3/4.0 (B+) from an accredited university or college. Applicants with fewer than 30 appropriate credits in Religious Studies or Theology are normally required to take a Qualifying Program before entering the M.A.

**Master of Arts (M.A.) in Religious Studies (Thesis) – Gender and Women’s Studies Option/Concentration**

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet degree requirements in Religious Studies (and other participating departments and faculties) who wish to focus on gender-related issues and feminist research and methodologies. Research focus is on a topic relating to gender issues or women's studies.

**Master of Arts (M.A.) (Non-Thesis)**

Applicants must possess a B.A. with a Major or Honours in Religious Studies or a Bachelor of Theology (B.Th.), or a Master of Divinity (M.Div.) degree, normally with a minimum CGPA of 3.3/4.0 (B+) from an accredited university or college. Applicants with fewer than 30 appropriate credits in Religious Studies or Theology are normally required to take a Qualifying Program before entering the M.A.

**Master of Sacred Theology (S.T.M.)**

Applicants must possess a B.A., normally with at least a good second-class standing (B+ or CGPA 3.3/4.0), in a major or honours program in religious studies or theology from an accredited university or college. Those who have a McGill B.Th. or an equivalent degree in addition to a B.A. degree with a second-class standing may be admitted to the second year of the S.T.M. program.

**Doctor of Philosophy (Ph.D.)**

Entry into the doctoral program is limited to applicants who have earned an academic master's degree in religious studies or theology in a recognized graduate program, or those who have finished the course requirements of such a program with a minimum CGPA of 3.5/4.0.

Advanced Standing (Ph.D. 2) may be granted if the completed master's-level work including a thesis is in the same area as that of the intended doctoral specialization and involved not less than six (6) courses (18 credits).

It is recommended that a foreign language related to the area of study be included in the bachelor's or master's work preceding doctoral study.

Applicants for doctoral programs are requested to submit a substantial sample of their scholarly writing (15–20 pages) with their application. The application should specify one of the specializations listed in *section 3.11.22.2: About Religious Studies*.

**Doctor of Philosophy (Ph.D.) in Religious Studies – Gender and Women’s Studies Option/Concentration**

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Religious Studies who wish to focus on gender-related issues and feminist research and methodologies. Research focus is on a topic relating to gender issues or women's studies.

### Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

**3112232 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- Personal Statement – approximately 500 words
- Written Work – recent academic writing

**3112233 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Religious Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
</tbody>
</table>
Application Deadlines

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term:</td>
<td></td>
</tr>
<tr>
<td>Sept. 15</td>
<td>March 15*</td>
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<tr>
<td>March 15*</td>
<td>March 15*</td>
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<tr>
<td>Winter Term:</td>
<td></td>
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<tr>
<td>Feb. 15</td>
<td>Sept. 10</td>
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<td>Sept. 10</td>
<td>Sept. 10</td>
</tr>
<tr>
<td>Summer Term:</td>
<td></td>
</tr>
<tr>
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<td>N/A</td>
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<tr>
<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

* To be considered for funding, applications for Fall term admission must be submitted by January 15.

Note: Admission to the M.A. Bioethics option is open for the Fall term only.

3.11.22.4 Religious Studies Faculty

Director

Daniel Cere (Interim)

Graduate Program Director and Admissions Chair

Garth W. Green

Administrative Officers

Luvana Di Francesco (on leave)
Francesca Maniaci (Acting)

Emeritus Professors

Maurice Boutin; B.A., B.A., B.A.(Mont.), D.Th.(Munich)
Donna 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.)

Post-Retirement Professor

G. Victor Hori; B.A.(York), M.A.(Tor.), Ph.D.(Stan.) (Japanese Religions)

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)
Armando Salvatore; M.A.(L'Orientale, Naples), Ph.D.(EUI, Florence), Dr. Habil.(Humboldt, Berlin) (Barbara and Patrick Keenan Chair in Interfaith Studies)
Arvind Sharma; B.A.(Allahabad), M.A.(Syrac.), M.T.S., Ph.D.(Harv.) (Henry Birks Professor of Comparative Religion)

Associate Professors

Lara Braitstein; 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)
Garth Green; M.A.(Boston), M.A.(Leuven), Ph.D.(Boston)
Andrea M. Pinkney; B.A.(McG.), M.A.(Hawaii at Manoa), Ph.D.(Col.) (South Asian Religions)
Assistant Professors

Mikael Baer; B.A., M.A.(Louvain), Ph.D.(Harv.) (Japanese Religions (Buddhism))
Jim Kanaris; B.A.(C’dia), M.A., Ph.D.(McG.) (Philosophy of Religion)
Samuel Nelson; M.A., Ph.D.(Yale)
Hamsa Stainton; B.A.(Cornell), M.A.(Wisc.), M.T.S.(Harv.), M.Phil., Ph.D.(Col.)
Heidi Wendt; B.A.(Brown), M.T.S.(Harv.), M.A., Ph.D.(Brown)

Numata Visiting Professor

TBD

Adjunct Faculty

Alyson Huntly; Dip.Min.(Centre for Christian Studies, Winnipeg), M.T.S.(St. And., Saskatoon), Ph.D.(Qu.)
Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton Theological School)
William Klempp; B.A.(Manit.), M.A.(Tor.), B.D., D.D.(Knox, Tor.), Ph.D.(Edin.)
Thupten 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.(Saarbrucken), M.Th.(Ludwig-Maximillian)
Vanessa Sasson; B.A., M.A., Ph.D.(McG.)
Davesh Soneji; B.A.(Manit.), Ph.D.(McG.) (South Asian Religion)
Dale Woods; B.A.(Alta.), M.C.S.(Regent), M.Div.(Vancouver School of Theology), D.Min.(Luther Seminary)
Jesse Zink; B.A.(Acad.), M.A.(Chic.), M.Div.(Yale), Ph.D.(Camb.)

Associate Member

George Di Giovanni; Ph.D.(Tor.)

Affiliate Members

Hillel Braude; M.B., Ch.B.(Cape Town), Ph.D.(Chic.)
Robert Di Pede; B.A.(Hons.)(Tor.), M.A.(Seton Hall), C.Phil.(Immaculate Conception Sem., Seton Hall), Ph.D.(Edin.)
Roland di Vrie; B.A.(Guelph), M.Div.(Presbyterian Coll.), S.T.M., Ph.D.(McG.)
Roberto Formisano; B.A.(Bologna), Ph.D.(Bologna/Nice)
Anne Leahy; M.A.(Tor.), Ph.D.(New Br.)
Susan Palmer; B.A.(McG.), M.A., Ph.D.(C’dia)
Antoine Panaioti; B.A.(McG.), M.Phil., Ph.D.(Camb.)
John Simons; B.A.(Bishop’s), S.T.B.(Trin. Coll., Tor.), Ph.D.(G’town)
Fabian E. Udoh; S.T.B.(Pontifica Univ. Gregoriana), M.Phil.(Oxf.), Ph.D.(Duke)

3.11.22.5 Master of Arts (M.A.) Religious Studies (Thesis) (45 credits)

Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>RELG 688</td>
<td>(3)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>RELG 689</td>
<td>(3)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>RELG 698</td>
<td>(9)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>RELG 699</td>
<td>(12)</td>
<td>Thesis Research 4</td>
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</table>

Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 645</td>
<td>(3)</td>
<td>Methods in Religious Studies</td>
</tr>
</tbody>
</table>
Complementary Courses (15 credits)
15 credits selected from the 500- or 600-level courses accepted by the Faculty of Religious Studies for the granting of a master's degree.

Language Requirement
Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student’s area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

3.11.22.6 Master of Arts (M.A.) Religious Studies (Thesis): Bioethics (45 credits)

Thesis Courses (24 credits)
- BIOE 690 (3) M.Sc. Thesis Literature Survey
- BIOE 691 (3) M.Sc. Thesis Research Proposal
- BIOE 693 (12) M.Sc. Thesis

Required Courses (12 credits)
- BIOE 680 (3) Bioethical Theory
- BIOE 681 (3) Bioethics Practicum
- RELG 571 (3) Ethics, Medicine and Religion
- RELG 645 (3) Methods in Religious Studies

Complementary Courses (9 credits)
9 credits at the 500 or 600 level, deemed necessary or accepted by the base faculty for the granting of a master’s degree, in consultation with the supervisor.

3.11.22.7 Master of Arts (M.A.) Religious Studies (Thesis): Gender and Women’s Studies (45 credits)

Thesis Courses
27 credits from:
- RELG 688 (3) Thesis Research 1
- RELG 689 (3) Thesis Research 2
- RELG 698 (9) Thesis Research 3
- RELG 699 (12) Thesis Research 4

Required Courses
6 credits from:
- RELG 645 (3) Methods in Religious Studies
- WMST 601 (3) Feminist Theories and Methods

Complementary Courses
12 credits selected from the 500- or 600-level courses accepted by the Faculty of Religious Studies for the granting of a master’s degree. Must include within the 12 credits:
Either
- WMST 602 (3) Feminist Research Symposium

or 3 credits of another 500- or 600-level course in Gender and Women’s Studies.
3.11.22.8 Master of Arts (M.A.) Religious Studies (Non-Thesis) (45 credits)

Research Project (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 660</td>
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<td>M.A. Research Paper 1</td>
</tr>
<tr>
<td>RELG 661</td>
<td>3</td>
<td>M.A. Research Paper 2</td>
</tr>
<tr>
<td>RELG 662</td>
<td>3</td>
<td>M.A. Research Paper 3</td>
</tr>
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</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>RELG 555</td>
<td>3</td>
<td>Honours Seminar</td>
</tr>
<tr>
<td>RELG 645</td>
<td>3</td>
<td>Methods in Religious Studies</td>
</tr>
</tbody>
</table>

Complementary Courses (30 credits)

30 credits of courses selected from the 500- or 600-level courses accepted by the Faculty of Religious Studies for the granting of a master's degree.

Language Requirement

Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

3.11.22.9 Master of Sacred Theology (S.T.M.) Religious Studies (Non-Thesis) (45 credits)

ATS Accreditation:
The S.T.M. program is fully accredited by the Association of Theological Schools in the U.S. and Canada.

The normal requirement is two years (of two terms each) of full-time study, but the degree may, by permission, be taken on a part-time basis.

Note: Ordination requirements for S.T.M. graduates will normally involve a further year of professional pastoral studies (the In-Ministry Year) provided by the Montreal School of Theology, which is affiliated with the School of Religious Studies.

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 645</td>
<td>3</td>
<td>Methods in Religious Studies</td>
</tr>
<tr>
<td>RELG 646</td>
<td>6</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>RELG 647</td>
<td>6</td>
<td>Research Project 2</td>
</tr>
</tbody>
</table>

Complementary Courses (30 credits)

12 credits from Area Studies listed below.

Area Studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 644</td>
<td>3</td>
<td>Biblical Theology</td>
</tr>
<tr>
<td>RELG 648</td>
<td>3</td>
<td>Church History</td>
</tr>
<tr>
<td>RELG 652</td>
<td>3</td>
<td>Christian Theology</td>
</tr>
<tr>
<td>RELG 653</td>
<td>3</td>
<td>Philosophy of Religion</td>
</tr>
<tr>
<td>RELG 656</td>
<td>3</td>
<td>Theological Ethics</td>
</tr>
<tr>
<td>RELG 663</td>
<td>3</td>
<td>Comparative Religion</td>
</tr>
</tbody>
</table>

18 credits at the 500 level or higher. Course selection approval is required by the Chair of the Religious Studies Graduate Committee.

Students who take the S.T.M.; Non-Thesis as part of their ordination requirements are to choose their courses in consultation with the Principal of the Theological College with which they are associated.

Related courses, at the 500 level or higher, are also available in other departments and must be chosen in consultation with the S.T.M; Non-Thesis adviser.
3.11.22.10 Doctor of Philosophy (Ph.D.) Religious Studies

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 701</td>
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<td>Major Comprehensive Examination</td>
</tr>
<tr>
<td>RELG 702</td>
<td>0</td>
<td>Minor Comprehensive Examination</td>
</tr>
<tr>
<td>RELG 703</td>
<td>0</td>
<td>Oral Comprehensive Examination</td>
</tr>
</tbody>
</table>

Candidates admitted to Ph.D. 1 take a minimum of six graduate seminars during their first year and four seminars during their Ph.D. 2 year; those admitted to Ph.D. 2 must take a minimum of four graduate seminars. If possible, two seminars should be in their area of specialization, and at least one should be at the 700 level.

Language Requirements
Students are required to give their area committee evidence of reading knowledge of two languages other than English. These languages must be chosen from modern languages in which there is a significant amount of scholarship relevant to the student's area of research, or from classical languages relevant to the student's area of research.

Research in some disciplines, or on certain thesis topics, may require proficiency in more than two languages besides English. In that case, additional language requirements may be stipulated by the supervisor.

Doctoral Colloquium
As one of their requirements, all Ph.D. students in residence shall attend the monthly graduate colloquium, at which time a student's thesis project is formally presented and discussed. Each student is required to present an aspect of his or her thesis research to a meeting of the Doktorklub before the thesis is submitted.

3.11.22.11 Doctor of Philosophy (Ph.D.) Religious Studies: Gender and Women’s Studies

Thesis
Presentation to Doktorklub of student’s thesis research.

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 701</td>
<td>0</td>
<td>Major Comprehensive Examination</td>
</tr>
<tr>
<td>RELG 702</td>
<td>0</td>
<td>Minor Comprehensive Examination</td>
</tr>
<tr>
<td>RELG 703</td>
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<td>Oral Comprehensive Examination</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

Students admitted to Ph.D. 1
Students admitted to Ph.D. 1 take a minimum of six (3-credit) graduate seminars during their first year and a minimum of four (3-credit) graduate seminars in Ph.D. 2 including:

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

and one 3-credit graduate seminar with a substantive focus on gender and/or women’s studies.
One 3-credit graduate seminar must be at the 700 level.

**Students entering into Ph.D. 2**

Students entering into Ph.D. 2 are required to take a minimum of four (3-credit) graduate seminars including:

- WMST 601 (3) Feminist Theories and Methods
- WMST 602 (3) Feminist Research Symposium

and one 3-credit graduate seminar with a substantive focus on gender and/or women’s studies.

One 3-credit graduate seminar must be at the 700 level.

**Language Requirements**

Modern and ancient languages as stipulated by field of study.

### 3.11.23 Social Studies of Medicine

#### 3.11.23.1 Location

Department of Social Studies of Medicine
3647 Peel Street
Montreal QC H3A 1X1
Canada
Telephone: 514-398-6033
Email: dept.ssom@mcgill.ca
Website: www.mcgill.ca/ssom

#### 3.11.23.2 About Social Studies of Medicine

The Department (SSOM) offers graduate studies in three areas:

- Medical Anthropology thesis program, given jointly with the Department of Anthropology;
- History of Medicine non-thesis program, given jointly with the Department of History and Classical Studies; and
- Medical Sociology thesis & non-thesis programs, given jointly with the Department of Sociology.

In each program, the student may work toward the M.A. and Ph.D. degrees. All degrees are awarded by the relevant Faculty of Arts department. For further information regarding those departments, please consult the [section 3.11.1: Anthropology](#), [section 3.11.10: History and Classical Studies](#), or [section 3.11.25: Sociology](#) sections.

The Department (SSOM) is interdisciplinary, with faculty in the fields of medical anthropology, medical history, and medical sociology. In its programs of graduate studies, it attempts to provide two things: training that is solidly grounded in the discipline of the chosen program, i.e., in anthropology, history, or sociology; and, through seminars and interaction with Department members and other graduate students, exposure to the other disciplines that are represented in the Department. The Department aims to instill in its graduates a combination of disciplinary competence and interdisciplinary perspective.

#### 3.11.1.9: Master of Arts (M.A.) Medical Anthropology (Thesis) (48 credits)

The program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences. The M.A. degree is awarded by the Anthropology Department and admission is granted by a joint Admissions Committee made up of representatives from Anthropology and the Department of Social Studies of Medicine.

#### 3.11.10.13: Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

The program is composed of required courses, graduate seminars, plus a major research paper. The program is normally completed in three terms, or one calendar year.

#### 3.11.25.8: Master of Arts (M.A.) Medical Sociology (Thesis) (45 credits)

This includes coursework and a research thesis that is based on original research.
This includes coursework and a research paper based on original research.

Ph.D. Programs
For information on the doctoral programs, please refer to the appropriate Department – section 3.11.1: Anthropology, section 3.11.10: History and Classical Studies, or section 3.11.25: Sociology.

3.11.23.3 Social Studies of Medicine Admission Requirements and Application Procedures

3.11.23.3.1 Admission Requirements

M.A. in Medical Anthropology
The program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences.

M.A. in the History of Medicine
Candidates must have a background in either history (Honours B.A. in History or equivalent) or a degree in one of the health professions.

M.A. in Medical Sociology
The program is open to students with a background in social sciences, health professions, or health sciences. It aims to prepare candidates for a career of teaching and research in medical sociology, and there is consequently a preference for applicants with the potential to proceed to the doctoral degree.

Ph.D. Programs
Candidates for a Ph.D. will normally have taken their M.A. in the same field. Please refer to the appropriate department: section 3.11.1: Anthropology, section 3.11.10: History and Classical Studies, or section 3.11.25: Sociology.

3.11.23.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

M.A. in Medical Anthropology
Admission is granted by a joint Admissions Committee made up of representatives from Anthropology and SSOM.
For details concerning applications, teaching assistantships, fellowships, etc., see the Department of Anthropology website.

M.A. in the History of Medicine
Application is made directly to the Department of History and Classical Studies. For details, see the Department of History and Classical Studies website.

M.A. in Medical Sociology
Admission is granted by representatives from Sociology and SSOM. For details concerning applications, teaching, assistantships, fellowships, etc., see the Department of Sociology website.

Ph.D. Programs
Please refer to the appropriate department: section 3.11.1: Anthropology, section 3.11.10: History and Classical Studies, or section 3.11.25: Sociology.

3.11.23.3.3 Application Dates and Deadlines

The application deadlines to the Social Studies of Medicine Option may vary depending on the department you are applying to. For more information, please contact the Graduate Program Coordinator in the department you are interested in.

3.11.23.4 Social Studies of Medicine Faculty

Chair
Annmarie Adams

Emeritus Professor
Margaret Lock; B.Sc.(Leeds), M.A., Ph.D.(Calif., Berk.) (Marjorie Bronfman Professor in Social Studies in Medicine)

Professors
Annmarie Adams; M.Arch, Ph.D.(Calif., Berk.) (Stevenson Chair in the History and Philosophy of Science, including Medicine)
Alberto Cambrosio; M.Env.(Sher.), Ph.D.(Montr.)
Thomas Schlich; M.D.(Marburg), Ph.D.(Freiburg) (James McGill Professor in the History of Medicine)
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 V) (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)
3.11.24 Social Work

3.11.24.1 Location

School of Social Work
Wilson Hall
3506 University Street, Suite 300
Montreal QC H3A 2A7
Canada
Telephone: 514-398-7070
Fax: 514-398-4760
Email: graduate.socialwork@mcgill.ca
Website: www.mcgill.ca/socialwork

3.11.24.2 About Social Work

The School of Social Work offers dynamic M.S.W. and Ph.D. programs, designed to explore cutting-edge knowledge on social work theory, practice, policy, and research. We have an exciting and growing faculty with a variety of research and practice expertise in the fields of:

- child welfare;
- health, mental health, and disability;
- poverty;
- aging;
- First Peoples;
- marginalized groups (e.g., immigrants and refugees, war affected populations, gay, lesbian, bisexual, and transgender people);
- loss and bereavement;
- domestic violence; and
- international social work.

Our approaches to practice and research cover all levels of intervention from individuals, families, groups, and communities. Located within the School of Social Work are specialized centres devoted to research and training in the areas of domestic violence; children and families; and international human rights. Graduate students also have access to workstations equipped with computers, and many professional development workshops and seminars. Several research assistantships and teaching assistantships are available each year.

The McGill School of Social Work is a member of the International Association of Schools of Social Work (IASSW), the Canadian Association for Social Work Education (l’Association Canadienne pour la formation en travail social; CASWE-ACFTS), and of the Regroupement des unités de formation universitaire en travail social du Québec (RUFUTS).

The School of Social Work is a professional school with the primary objective of preparing students for careers and for leadership in the fields of social work and social welfare.

Qualifying Year Entry into the M.S.W. Program

Applicants demonstrating academic excellence and a minimum of one year of social work related experience (voluntary and/or professional) are considered for admission to the one-year, full-time (only) Qualifying year of study in preparation for entry to the M.S.W. (Non-Thesis) program. The objective of this preparatory year is to provide students with essential foundation social work knowledge that will provide a basis upon which to embark on graduate-level studies in social work.

M.S.W. Program

The overarching objective of the master's program is the provision of advanced professional training by means of integrated learning experiences. Specifically, the educational goals are to:

1. develop a deepened and advanced competence in practice and research;
2. embrace a capacity for critical understanding of social theories, social problems, and emergent issues; and
3. understand population groups in need, institutional structures, and policy initiatives and processes.

There are three types of M.S.W. degrees: M.S.W. (Thesis), M.S.W. (Non-Thesis), and M.S.W. with B.C.L./LL.B. The M.S.W. (Thesis) and (Non-Thesis) programs carry a weight of 45 credits, and, taken on a full-time basis, both options involve three terms of study. In both options, part-time study can be arranged.

There are two points of entry into the M.S.W.: one for those who hold a B.S.W. degree; and one for those who have completed the one-year Qualifying year of study offered by the School of Social Work.

Note: With respect to M.S.W. (Non-Thesis) program and the Qualifying year of study for entry into the M.S.W. (Non-Thesis) program, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional Ordre after graduation, but also to candidates who wish to maximize their field placement opportunities during their program. Students are expected to be functional in French (comprehension, spoken, and written) for the field placement component of the Qualifying year and the M.S.W. (Non-Thesis) program. Students without proficiency in French will have limited local options and will likely need to complete their field placement in an out-of-province setting in the spring/summer. In consultation with the Field Education Coordinator, such students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Ph.D. Program in Social Work

The School of Social Work offers a dynamic Ph.D. program in social work/social policy in order to promote the development of scholarship on social issues within Canada and Quebec. Courses are offered in English at McGill. Parallel streams are offered in French at Université de Montréal and Université du Québec à Montréal. Students have the opportunity of taking courses at all three universities.

The program aims to:

1. prepare graduates for careers in university teaching and research, policy development, implementation and evaluation, practice and program evaluation, leadership and management of human services;
2. offer students the opportunity to acquire research methodology skills and to apply these to a range of areas relevant to social work; and
3. stimulate original research on important social problems and issues.

section 3.11.24.6: Master of Science, Applied (M.Sc.A.) Couple and Family Therapy (Non-Thesis) (60 credits)

The Master's in Couple and Family Therapy is designed to allow students with an M.S.W. degree, or an equivalent graduate level degree, to receive advanced credit and be eligible for Advanced level entry (minimum of 45 credits) taken over three terms. Admission to the program will be interdisciplinary, with candidates entering from related human science, social science, or helping profession backgrounds such as Social Work, Clinical Psychology, Educational Psychology, Sociology, Nursing, or other related disciplines. Applicants who have successfully completed a bachelor's or master's degree in a related human science, social science, or helping profession, with a minimum overall CGPA of 3.0 out of 4.0, are eligible to apply.

section 3.11.24.7: Master of Social Work (M.S.W.) Social Work (Thesis) (45 credits)

The M.S.W. Thesis program is designed for students who have a keen interest in developing an advanced intellectual understanding and a specialized set of research skills in one of three areas: Individuals and Families; Groups, Communities and Networks; or Social Policy and Systemic Responses. Program requirements consist of a thesis and six courses (two of which are required), taken over an extended period of three to four terms of full-time study. Prospective students will hold a B.S.W. degree with a minimum of one year of prior social work related experience (voluntary and/or professional).

Subsequent career paths are varied and lead to exciting opportunities in health, social services, and community organizing, where social workers undertake clinical, leadership, or policy roles.

section 3.11.24.8: Master of Social Work (M.S.W.) Social Work (Thesis): Gender and Women's Studies (45 credits)

Please click the above link for further information on this program.


Please click the above link for further information on this program.

section 3.11.24.11: Master of Social Work (M.S.W.) Social Work (Non-Thesis): International Partner Program (45 credits)

This program is offered intermittently, based on funding, to a specific cohort of students by invitation only.


The School of Social Work and the Faculty of Law offer a Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law/Bachelor of Laws (B.C.L./LL.B.) designed to transcend academic boundaries in social justice issues. Lawyers and social workers often operate in the same fields, whether in public policy, child protection, family law, poverty law, or domestic violence situations, yet each profession has been constrained by internal limitations. The joint M.S.W. (Non-Thesis)/Law program requires students to complete 132 credits (45 credits in M.S.W., 87 credits in Law). Students should take three and a half to four years to complete the M.S.W./B.C.L./LL.B. program. It is possible, however, to complete the program in three years, by doing
work for credit over the summer and by carrying heavier course loads throughout the program. The joint program leads to conferral of the B.C.L./LL.B. law degrees and the master’s degree in social work. Prospective students possess a B.S.W. degree with prior practice experience or have completed the Qualifying year for study into the M.S.W. (Non-Thesis) program.

section 3.11.24.13: Doctor of Philosophy (Ph.D.) Social Work: McGill/UdeM/UQAM (offered jointly by McGill, Université de Montréal, and Université du Québec à Montréal)

As one of the top Ph.D. programs in Canada, the School of Social Work promotes leading scholarship on social policy and practice. Students work closely with their supervisor, pursuing individualized programs of study, which include coursework, research, and professional development. Faculty have expertise in a variety of areas such as aging; social exclusion; child welfare; international social welfare; Aboriginal people and communities; violence against women and children; health and disability; poverty and social development; migration and community organizing. Students normally take two semesters of coursework after which they complete a comprehensive exam. In the second year of the program, students begin their thesis work and take a course designed to facilitate the research process. Research and writing usually takes two to three years to complete.

McGill offers competitive entrance fellowships, access to computers and library resources, and active student networks. There are many opportunities to be involved in faculty research projects and sessional teaching. Students go on to careers in teaching, organizational leadership, and social policy analysis.

3.11.24.3 Social Work Admission Requirements and Application Procedures

3.11.24.3.1 Admission Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. An institutional version of the TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available. For the TOEFL, McGill's institutional code is 0935.

- Test of English as a Foreign Language (TOEFL) – International applicants must achieve a minimum score of 96* on the Internet-based test.
  * Each individual component of reading, writing, listening, and speaking must have a minimum score of 24.
- The International English Language Testing System (IELTS) – International applicants must achieve a minimum overall band score of 8.0**.
  ** Each individual component of reading, writing, listening, and speaking must have a minimum score of 7.5.

Qualifying Year of Study for Admission to the M.S.W. (Non-Thesis) Program

Applicants who have successfully completed a DCS/DEC from CEGEP plus a minimum of a 90-credit or three-year university degree or a high school diploma plus a minimum of a 120-credit or 4-year university degree prior to entry into the Qualifying year with a minimum high B average (GPA 3.2/4.0), and who have completed university-level coursework in Statistics and Human Development Across the Lifespan, within the last 5 years or by August 15 for a September start date, are admissible to the Qualifying year of Study for Admission to the M.S.W (Non-Thesis) program. Applicants are also expected to have one year of paid or volunteer professional social work experience prior to admission.

M.S.W. (Thesis) and (Non-Thesis) Programs

Applicants who have successfully completed a B.S.W., with a minimum high B average (GPA 3.2/4.0), and who have completed university-level coursework in Statistics and in Human Development Across the Lifespan, within the last 5 years or by August 15 for a September start date, are admissible to the Master of Social Work program. Applicants are also expected to have one year of paid or volunteer professional social work experience prior to admission.

Students who have completed the one-year, full-time Qualifying year of study at the School of Social Work are eligible for direct admission to the M.S.W. (Non-Thesis) program provided they have secured a minimum B+ average in Qualifying courses, and have successfully fulfilled all fieldwork requirements.

M.Sc.A. Program

The Master's in Couple and Family Therapy is designed to allow students with an M.S.W. degree, or an equivalent graduate level degree, to receive advanced credit and be eligible for Advanced level entry (minimum of 45 credits) taken over three terms. Admission to the program will be interdisciplinary, with candidates entering from related human science, social science, or helping profession backgrounds such as Social Work, Clinical Psychology, Educational Psychology, Sociology, Nursing, or other related disciplines. Applicants who have successfully completed a bachelor's or master's degree in a related human science, social science, or helping profession, with a minimum overall CGPA of 3.0 out of 4.0, are eligible to apply.

Joint program: Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.)

Applicants must apply separately for admission to each Faculty. Applicants must meet or surpass the requirements for admission to both the M.S.W. program and to Law and must submit a brief statement explaining their interest in this joint program along with all other required admission materials.

Ph.D. Program

Applicants apply directly to the School of Social Work. Applicants applying to the Ph.D. program must hold a master's degree in social work or, exceptionally, a bachelor's degree in social work with a master's degree in a related subject from an accredited program. However, applicants who hold a master's degree in a related social science discipline with strong research interests and experience in social work/social policy may also be considered. All applicants must also have completed, at the university level, coursework in statistics and in research methods within the last five years.

Criteria considered in weighing applications include:
• quality and relevance of the student’s research proposal and one-page narrative;
• quality of reference letters;
• previous experience as demonstrated in the CV.

3.11.24.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Applications will only be considered upon receipt of all required documents.

31124321 Additional Requirements

The items and clarifications below are additional requirements set by this department:

• Qualifying year of study applicants (see www.mcgill.ca/socialwork/prospective/qyprogram for forms and guidelines):
  • Curriculum Vitae (using form provided)
  • Prerequisite Form (using form provided)
  • Statement of Interest for Social Work
  • Three references (two academic and one professional)

• M.S.W. (Thesis), M.S.W. (Non-Thesis), and M.S.W. with B.C.L. and L.L.B applicants (see www.mcgill.ca/socialwork/prospective/msw for forms and guidelines):
  • Curriculum Vitae (using form provided)
  • Prerequisite Form (using form provided)
  • Statement of Interest or Research Statement for Social Work
  • Three references (two academic and one professional)

• M.Sc.A. applicants (see www.mcgill.ca/socialwork/prospective/msca for forms and guidelines):
  • Curriculum Vitae (using form provided)
  • Program Application Face Sheet
  • Pre-requisite Form (using form provided)
  • Advanced Standing Form (provided)
  • Letter of Intent
  • Admission Interview (for selected candidates)
  • Three references (one academic and two professional)

• Ph.D. applicants (see www.mcgill.ca/socialwork/prospective/phd for forms and guidelines):
  • Ph.D. Prerequisite Form
  • Personal Statement (maximum length one page, single-spaced)
  • Ph.D. Curriculum Vitae Form
  • Ph.D. Research Proposal (maximum length five pages, single-spaced, including references. Do not append detailed CV.)
  • Written Work (upload one sample)

3.11.24.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Social Work and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

The Qualifying year, M.S.W., and M.Sc.A. deadlines below apply to all application documents, except university transcripts and references, which must be received by January 15.

<table>
<thead>
<tr>
<th>Qualifying year, M.S.W., M.Sc.A.</th>
<th>Application Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Sept. 15</td>
<td>Dec. 15</td>
</tr>
<tr>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
<td>Dec. 15</td>
<td>Dec. 15</td>
</tr>
<tr>
<td>Current McGill Students (any citizenship)</td>
<td>Dec. 15</td>
<td>Dec. 15</td>
</tr>
</tbody>
</table>

Fall Term: | N/A | N/A | N/A | N/A |

Winter Term: | N/A | N/A | N/A | N/A |
Qualifying year, M.S.W., M.Sc.A.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
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</tbody>
</table>

The Ph.D. deadlines below apply to all application documents, including university transcripts and references.

<table>
<thead>
<tr>
<th>Ph.D. Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term:</td>
<td>All Applicants</td>
</tr>
<tr>
<td></td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td></td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td></td>
<td>Current McGill Students (any citizenship)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.11.24.4 Social Work Faculty

**Director**

Nico Trocmé

**Professors**

Cindy Blackstock; B.A.(Br. Col.), M.B.A.(McG.), Ph.D.(Tor.)

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.)

Delphine Collin-Vézina; B.Sc., Ph.D.(Montr.)

Sydney Duder; B.Sc., M.S.W., Dipl. Adv. Soc. Wk. Practice, Ph.D.(McG.)

Jill Hanley; B.A., B.S.W.(McG.), M.A.(Tufts), Ph.D.(Montr.)

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.)

Lucyna Lach; B.A., M.S.W., Ph.D.(Tor.)

Heather MacIntosh; B.A., Ph.D.(Ott.)

Shadi Martin; B.Sc., M.A.(Health Serv. & Public. Adm.), M.S.W., Ph.D.(Utah)

Vadna Sinha; B.A.(Utah), M.A., Ph.D.(N’western)

Tamara Sussman; B.A., B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

**Assistant Professors**

Wanda Gabriel; B.S.W., M.S.W.(McG.)

Sarilee Kahn; B.F.A.(Utah), M.P.H., M.S.W.(Col.), Ph.D.(NYU)
3.11.24.5 Qualifying Year (for Entry into M.S.W. Non-Thesis)

Applicants admitted to the Qualifying year are immersed, over two terms of full-time study only, in coursework and fieldwork to provide the foundational knowledge for an exciting career in social work through the continuation of the M.S.W. Non-Thesis program. This full-time Qualifying year of study comprises 15 credits per term. Students who complete the one-year full-time Qualifying year of study at the School of Social Work are eligible for direct entry into the M.S.W program (Non-Thesis only) provided they have secured a minimum B- grade in each Qualifying year course and have successfully fulfilled all fieldwork requirements. Applications to the Qualifying year are accepted for Fall admission only, and for full-time study only, as this is an integrated program of study for the entire year that cannot be taken out of sequence.

For more information, please visit the School of Social Work website: www.mcgill.ca/socialwork.

3.11.24.6 Master of Science, Applied (M.Sc.A.) Couple and Family Therapy (Non-Thesis) (60 credits)

This master's-level clinical program (non-thesis) emphasizes clinical understanding and training in couple and family therapy applicable to multidisciplinary clinical professionals in which family systems and related theories can inform clinical practice. The general objectives of the program are to train clinical professionals in couple and family psychotherapy by integrating contemporary theory, research competence and varied approaches to therapy in the understanding and treatment of families today. It will produce graduates with competencies in the assessment and treatment of families across the life cycle with skills that can be applied to specialized psychotherapy practice in health and community settings. Program graduates will fulfill the requirements for both the Couple and Family Therapy permit (OTSTCFQ) and the Psychotherapy permit (OPQ).

Required Courses (57 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAFT 600</td>
<td>3</td>
<td>Couple and Family Therapy Pre-Practicum</td>
</tr>
<tr>
<td>CAFT 601</td>
<td>3</td>
<td>Diversity and Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 602</td>
<td>3</td>
<td>Advanced Assessment in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 603</td>
<td>3</td>
<td>Research Methods for Couple and Family Therapists</td>
</tr>
<tr>
<td>CAFT 604</td>
<td>3</td>
<td>Contemporary Issues in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 605</td>
<td>3</td>
<td>Advanced Family Treatment Across the Lifespan</td>
</tr>
<tr>
<td>CAFT 606</td>
<td>3</td>
<td>Internship 1 in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 607</td>
<td>3</td>
<td>Legal, Ethical and Professional Issues in C &amp; FT</td>
</tr>
<tr>
<td>CAFT 608</td>
<td>3</td>
<td>Human Development Across Lifespan: Couple &amp; Family Therapy</td>
</tr>
<tr>
<td>CAFT 609</td>
<td>3</td>
<td>Advanced Couple Therapy</td>
</tr>
<tr>
<td>CAFT 610</td>
<td>3</td>
<td>Biological Foundations of Behaviour for C&amp;FTs</td>
</tr>
<tr>
<td>CAFT 611</td>
<td>6</td>
<td>Internship 2 in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 612</td>
<td>6</td>
<td>Internship 3 in Couple and Family Therapy</td>
</tr>
<tr>
<td>SWRK 602</td>
<td>3</td>
<td>Family Treatment</td>
</tr>
<tr>
<td>SWRK 622</td>
<td>3</td>
<td>Understanding and Assessing Families</td>
</tr>
<tr>
<td>SWRK 623</td>
<td>3</td>
<td>Couple Therapy</td>
</tr>
</tbody>
</table>
**Complementary Courses (3 credits)**

from the following:

- EDPC 503 (3) Intersectional Relationships and Sexualities
- SWRK 621 (3) Seminar on Trauma and Resilience
- SWRK 628 (3) Violence against Women
- SWRK 635 (3) Advanced Clinical Seminar: Use of Self
- SWRK 655 (3) Seminar on Aging
- SWRK 657 (3) Seminar on Mental Health
- SWRK 668 (3) Living with Illness, Loss and Bereavement
- SWRK 669 (3) Disability and Rehabilitation
- SWRK 670 (3) Seminar on Caregiving

**3.11.24.7 Master of Social Work (M.S.W.) Social Work (Thesis) (45 credits)**

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories which inform practice, policy, and research. Envisioned as an opportunity to advance knowledge and skills, students are encouraged to immerse themselves in an area of scholarship and practice related to “Children and Families,” “Social Care and Health Studies,” and “Community and International Development.” In addition, students investigate a subject matter of their choice in one of these broad areas of study through an independent study project or a master’s thesis. Through the M.S.W. program, students develop critical and innovative approaches to practice competence and to policy analysis such that they may contribute to both established social services and to new and less developed areas of service provision.

**Thesis Courses (27 credits)**

- SWRK 698 (12) Thesis Research 1
- SWRK 699 (15) Thesis Research 2

**Required Courses (6 credits)**

- SWRK 643 (3) Research Methods 2
- SWRK 653 (3) Research Methods 1

**NOTE:**

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional Ordre after graduation but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

**Elective Courses (12 credits)**

12 credits of SWRK courses at the 500 or 600 level; up to 6 credits in total may be taken outside the Department.

**3.11.24.8 Master of Social Work (M.S.W.) Social Work (Thesis): Gender and Women's Studies (45 credits)**

The School of Social Work's M.S.W. Thesis – Gender and Women's Studies option is designed for students who have strong research interests and are particularly attracted to feminist theories and research methodologies. This program supports the development of advanced intellectual understanding and specialized research skills centered on gender, sexuality, feminism, and women in relation to “Children and Families,” “Social Care and Health Studies,” and “Community and International Development.”

The thesis must be related to Gender and Women's Studies. The M.S.W. Thesis program includes graduate-level coursework and a research thesis. Students work closely with a Faculty supervisor. There is no field placement in the M.S.W. Thesis – Gender and Women's Studies program.

**Thesis Courses (27 credits)**
Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 643</td>
<td>3</td>
<td>Research Methods 2</td>
</tr>
<tr>
<td>SWRK 653</td>
<td>3</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important, not only to candidates who intend to seek admission to the Quebec Professional Order after graduation.

Complementary Courses (9 credits)

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

OR 3 credits of 500- or 600-level WMST courses;

OR 3 credits of 500- or 600-level WMST courses in another department or discipline with the approval of a Social Work M.S.W. advisor that has been approved as a complementary course to the Option in Gender and Women’s Studies.

6 credits of 500- or 600-level courses selected from the School of Social Work.

3.11.24.9 Master of Social Work (M.S.W.) Social Work (Non-Thesis) (45 credits)

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories that inform practice, policy, and research. Envisioned as an opportunity to advance knowledge and skills, students are encouraged to immerse themselves in an area of scholarship and practice related to “Children and Families,” “Social Care and Health Studies,” and “Community and International Development.” In addition, students investigate a subject matter of their choice in one of these broad areas of study through an independent study project or a master’s thesis. Through the M.S.W. program, students develop critical and innovative approaches to practice competence and to policy analysis such that they may contribute to both established social services and to new and less developed areas of service provision.

Research Project (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SWRK 690</td>
<td>9</td>
<td>Independent Study Project</td>
</tr>
</tbody>
</table>

Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 643</td>
<td>3</td>
<td>Research Methods 2</td>
</tr>
<tr>
<td>SWRK 650</td>
<td>3</td>
<td>Field Work Practicum 1</td>
</tr>
<tr>
<td>SWRK 651</td>
<td>3</td>
<td>Field Work Practicum 2</td>
</tr>
<tr>
<td>SWRK 653</td>
<td>3</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>SWRK 660</td>
<td>6</td>
<td>Field Work Practicum 3</td>
</tr>
</tbody>
</table>

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Elective Courses (18 credits)

18 credits of 500- or 600-level courses; up to 6 credits in total may be taken outside the School.
Students in both M.S.W. options are invited to take up to two courses in other departments of the University in areas of study not offered in the School of Social Work.


The Graduate Option in Gender and Women's Studies is an interdisciplinary program for students who meet degree requirements in Social Work and who wish to take 6 credits of approved coursework to focus on gender, sexuality, feminist, and women's studies and issues in feminist research and methods.

**Research Project (9 credits)**

- SWRK 690 (9) Independent Study Project

**Required Courses (21 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
- WMST 601 (3) Feminist Theories and Methods

**NOTE:**

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

**Complementary Courses (15 credits)**

3 credits from the following:

- WMST 602 (3) Feminist Research Symposium

OR

3 credits of WMST at the 500 or 600 level;

OR

3 credits in another department approved as a complementary course to the Option in Gender and Women's Studies by an MSW adviser in the School of Social Work.

AND

12 credits of 500- or 600-level courses selected from the School of Social Work.


**Qualifying Period (summer) (9 credits)**

- SWRK 350 (3) Social Work Skills Laboratory
- SWRK 353 (3) Introduction to Practice
- SWRK 485 (3) Tutorial: Social Work Practice

- Program-specific Activities
- Intensive English

**Required Courses (24 credits)**

- SWRK 633** (3) Program Evaluation
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 643**</td>
<td>(3)</td>
<td>Research Methods 2</td>
</tr>
<tr>
<td>SWRK 650*</td>
<td>(3)</td>
<td>Field Work Practicum 1</td>
</tr>
<tr>
<td>SWRK 651*</td>
<td>(3)</td>
<td>Field Work Practicum 2</td>
</tr>
<tr>
<td>SWRK 653**</td>
<td>(3)</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>SWRK 660*</td>
<td>(6)</td>
<td>Field Work Practicum 3</td>
</tr>
<tr>
<td>SWRK 690*</td>
<td>(9)</td>
<td>Independent Study Project</td>
</tr>
</tbody>
</table>

* These courses will be undertaken in the home community in the second year, as has been the case for previous cohorts.

** Students take SWRK 633 or SWRK 643 or SWRK 653.

### Complementary Courses (21 credits)

21 credits of SWRK courses at the 500 or 600 level. Up to 6 credits in total may be taken outside the Department.

### 3.11.24.12 Master of Social Work with Bachelor of Civil Law & Bachelor of Laws (Joint M.S.W. & B.C.L./LL.B.) Social Work (Non-Thesis) & Law (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 - Social Work (30 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 643</td>
<td>(3)</td>
<td>Research Methods 2</td>
</tr>
<tr>
<td>SWRK 650</td>
<td>(3)</td>
<td>Field Work Practicum 1</td>
</tr>
<tr>
<td>SWRK 651</td>
<td>(3)</td>
<td>Field Work Practicum 2</td>
</tr>
<tr>
<td>SWRK 653</td>
<td>(3)</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>SWRK 660</td>
<td>(6)</td>
<td>Field Work Practicum 3</td>
</tr>
<tr>
<td>SWRK 691</td>
<td>(12)</td>
<td>Social Work / Law Independent Study Project</td>
</tr>
</tbody>
</table>

### Complementary - Social Work (15 credits)

Students complete 15 credits of 500- or 600-level SWRK courses. A total of 6 graduate-level credits may be taken outside the School of Social Work with the approval of the academic adviser.

### Required - Law (53 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 365</td>
<td>(4)</td>
<td>Business Associations</td>
</tr>
<tr>
<td>LAWG 100D1</td>
<td>(3)</td>
<td>Contractual Obligations</td>
</tr>
<tr>
<td>LAWG 100D2</td>
<td>(3)</td>
<td>Contractual Obligations</td>
</tr>
<tr>
<td>LAWG 101D1</td>
<td>(3)</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>LAWG 101D2</td>
<td>(3)</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>PRAC 147D1</td>
<td>(1.5)</td>
<td>Introductory Legal Research</td>
</tr>
<tr>
<td>PRAC 147D2</td>
<td>(1.5)</td>
<td>Introductory Legal Research</td>
</tr>
<tr>
<td>PRAC 155D1</td>
<td>(1.5)</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>PRAC 155D2</td>
<td>(1.5)</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>PROC 124D1</td>
<td>(2)</td>
<td>Judicial Institutions and Civil Procedure</td>
</tr>
<tr>
<td>PROC 124D2</td>
<td>(2)</td>
<td>Judicial Institutions and Civil Procedure</td>
</tr>
<tr>
<td>PROC 200</td>
<td>(3)</td>
<td>Advanced Civil Law Obligations</td>
</tr>
<tr>
<td>PRV1 144D1</td>
<td>(2.5)</td>
<td>Civil Law Property</td>
</tr>
<tr>
<td>PRV1 144D2</td>
<td>(2.5)</td>
<td>Civil Law Property</td>
</tr>
</tbody>
</table>
Complementary - Law
9-15 credits
Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

**Complementary - 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
- PRV2 270 (3) Law of Persons
- PRV4 548 (3) Administration Property of Another and Trusts

**Complementary - 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
- PRV5 582 (2) Advanced Torts

**Complementary - 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)
- LAWG 504 (3) Death and Property
- LEEL 570 (3) Employment Law
- PRV5 483 (3) Consumer Law
Complementary - Law, Social Diversity, Human Rights and Indigenous Law (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
- IDFC 500 (3) Indigenous Field Studies
- LAWG 503 (3) Inter-American Human Rights
- LAWG 507 (3) Critical Race Theory Advanced Seminar
- 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

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

- 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRIT 435*</td>
<td>3</td>
<td>Legal Clinic 3</td>
</tr>
<tr>
<td>WRIT 440*</td>
<td>6</td>
<td>Clerkship A</td>
</tr>
<tr>
<td>WRIT 440D1*</td>
<td>3</td>
<td>Clerkship A</td>
</tr>
<tr>
<td>WRIT 440D2*</td>
<td>3</td>
<td>Clerkship A</td>
</tr>
<tr>
<td>WRIT 441*</td>
<td>3</td>
<td>Clerkship B</td>
</tr>
</tbody>
</table>

* With the approval of the Associate Dean (Academic), in consultation with the Faculty supervisors, on a case-by-case basis.

**Elective - Law, Other Courses**
19-25 credits
Students select the remaining 19-25 credits from among Faculty of Law offerings.

(Offered jointly by McGill and Université de Montréal.)

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 701</td>
<td>0</td>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>SWRK 720</td>
<td>3</td>
<td>Thought and Theory Development in Social Work</td>
</tr>
<tr>
<td>SWRK 721</td>
<td>3</td>
<td>Advanced Integrative Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses**

One of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 722</td>
<td>3</td>
<td>Advanced Seminar: Social Work Intervention</td>
</tr>
<tr>
<td>SWRK 723</td>
<td>3</td>
<td>Advanced Seminar on Social Policy</td>
</tr>
</tbody>
</table>

One of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 724</td>
<td>3</td>
<td>Advanced Research Methods and Analysis: Quantitative Data</td>
</tr>
<tr>
<td>SWRK 725</td>
<td>3</td>
<td>Advanced Qualitative Research Methods and Data Analysis</td>
</tr>
</tbody>
</table>

One course in Social Work or a related discipline.

**3.11.25 Sociology**

**3.11.25.1 Location**

Department of Sociology  
Stephen Leacock Building, Room 712  
855 Sherbrooke Street West  
Montreal QC H3A 2T7  
Canada  
Graduate Program and Admission Information:  
Telephone: 514-398-4300  
Fax: 514-398-7476  
Email: graduate.sociology@mcgill.ca  
Website: www.mcgill.ca/sociology
3.11.25.2 About Sociology

The Department offers training leading to the following degrees:

- Master of Arts in Medical Sociology (Thesis and Non-Thesis) with the Social Studies of Medicine Department
- Master of Arts in Sociology (Thesis and Non-Thesis)
- Master of Arts in Sociology – Development Studies Option (Thesis and Non-Thesis)
- Master of Arts in Sociology – Gender and Women’s Studies Option (Thesis and Non-Thesis)
- Master of Arts in Sociology – Population Dynamics Option (Non-Thesis)
- Doctor of Philosophy in Sociology
- Doctor of Philosophy in Sociology – Gender and Women’s Studies Option
- Doctor of Philosophy in Sociology – Population Dynamics Option

The Department of Sociology has very high standards and an excellent record of placing students in both academic and non-academic careers in institutions ranging from the University of Chicago and Berkeley to StatsCan and CEGEPs. The Department has a stellar record of research publications and a lively graduate program, and we benefit from many new faculty appointments allowing us to be at the forefront of current issues. A large number of M.A. programs are offered, as well as a few at the Ph.D. level (see below). The Department has full access to the resources of StatsCan, with additional training for students. We have particular strength in the following fields:

- comparative political sociology and development;
- diversity and inequalities;
- population and health.

Availability of Funding

The Department offers a limited number of teaching assistantships. A full teaching assistantship consists of a maximum of 180 hours of work per term. Appointments for a full teaching assistantship span 15 weeks and involve an average of 12 hours per week.

M.A. Program Options

section 3.11.25.8: Master of Arts (M.A.) Medical Sociology (Thesis) (45 credits)

The Department contributes to knowledge at the forefront of current issues—in particular, those dealing with health systems and with policies concerning HIV/AIDS. This program is a cooperative effort of the Department of Sociology and the Department of Social Studies of Medicine. Many students who have chosen this option have gone on to do further research and others to personnel work in the health services. Researching and writing a thesis takes considerable time, and this program typically takes two years to complete.

section 3.11.25.5: Master of Arts (M.A.) Sociology (Thesis) (45 credits)

This program provides excellent methodological training, but is principally designed for students who wish to gain a first experience doing original research. Some students have stopped at this stage; more have gone on to higher degree work. Researching and writing a thesis requires considerable effort, and this program typically takes two years to complete.

section 3.11.25.6: Master of Arts (M.A.) Sociology (Thesis): Development Studies (45 credits)

This program is for students with a particular interest in development—an area in which McGill is very strong. Researching and writing a thesis takes considerable time, and this program typically takes two years to complete. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the Development Studies Option Coordinating Committee.

section 3.11.25.7: Master of Arts (M.A.) Sociology (Thesis): Gender and Women’s Studies (45 credits)

This interdisciplinary program is for students who meet the requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women’s studies, and in issues in feminist research and methods. The student’s thesis must be on a topic centrally relating to issues of gender and/or women’s studies. Researching and writing a thesis takes considerable time, and this program typically takes two years to complete.

section 3.11.25.12: Master of Arts (M.A.) Medical Sociology (Non-Thesis) (45 credits)

The Department contributes to knowledge at the forefront of current issues—in particular, those dealing with health systems and with policies concerning HIV/AIDS. This program is a cooperative effort of the Department of Sociology and the Department of Social Studies of Medicine. Many students who have chosen this option have gone on to do further research and others to personnel work in the health services. The program is designed to be completed within twelve months.
section 3.11.25.9: Master of Arts (M.A.) Sociology (Non-Thesis) (45 credits)

This program is both for students who wish to continue from an undergraduate degree in sociology, and those who wish to enter sociology for the first time. McGill is an excellent venue because the program involves rigorous training in methodology. Academically inclined students have gone on to higher degrees, some at McGill and others at other universities; the training offered has allowed others to go to varied careers, not least as teachers in CEGEPs. This program is designed to be completed within twelve months.

section 3.11.25.10: Master of Arts (M.A.) Sociology (Non-Thesis): Development Studies (45 credits)

This program is for students with a particular interest in development—an area in which McGill is very strong. Many students from this program have gone on to further research, but several have entered the world of non-governmental organizations—with some going on to work for the U.N. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The research paper must be on a topic related to development studies, approved by the Development Studies Option Coordinating Committee. This program is designed to be completed within twelve months.

section 3.11.25.11: Master of Arts (M.A.) Sociology (Non-Thesis): Gender and Women’s Studies (45 credits)

This interdisciplinary program is for students who meet the degree requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women’s studies, and in issues in feminist research and methods. The student’s research paper must be on a topic centrally relating to issues of gender and/or women’s studies. The program is designed to be completed within twelve months.


The purpose of the Population Dynamics Option (PDO) is to provide graduate training in demographic methods (including life table analyses) and enhance students’ knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research Projects must be on a topic relating to population dynamics, approved by the PDO coordinating committee.

Ph.D. Program Options

section 3.11.25.14: Doctor of Philosophy (Ph.D.) Sociology

There are two ways to enter the Ph.D. program. Some students are fast-tracked (i.e., from a B.A. degree without having to complete an M.A. in Sociology), as Ph.D. 1 students; they take twelve substantive courses, in addition to various thesis requirements, and are trained in qualitative and quantitative research methods and in research design. Other students, typically those with an M.A. in Sociology, are considered as Ph.D. 2 students; they typically take six substantive courses, in addition to various thesis requirements—although further courses may be required if their methodological skills do not meet the standards required by the Department. Our Social Statistics Laboratory allows students to make systematic use of quantitative data sources. All students must pass two area exams and present a thesis proposal before turning to the thesis itself, which may take the form of a single piece of research, or a set of articles on a particular theme.

section 3.11.25.15: Doctor of Philosophy (Ph.D.) Sociology: Gender and Women’s Studies

This interdisciplinary program is for students who meet the Ph.D. requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women’s studies, and on issues in feminist research and methods. The thesis or set of articles must relate to issues of gender and/or women’s studies.

section 3.11.25.16: Doctor of Philosophy (Ph.D.) Sociology: Population Dynamics

This program aims to provide advanced graduate training in demographic methods (including life table analyses) and enhance students’ knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Dissertation topics must be related to population dynamics and approved by the Population Dynamics Option (PDO) coordinating committee.

3.11.25.3 Sociology Admission Requirements and Application Procedures

311.25.3.1 Admission Requirements

Applicants must have a bachelor's degree with a standing equivalent to a cumulative grade point average (CGPA) of 3.3 or better out of a possible 4.0. The degree may be either in Sociology or in another relevant social science. In the latter case, applicants may be required to take some additional sociology courses to fill gaps in their background.
The strength of an applicant's academic record is of primary importance in consideration of an applicant's dossier. For a detailed description of courses open to graduates and undergraduates, and of preparation required of McGill University honours students, candidates should consult the Faculty of Arts Undergraduate section.

All applicants are asked to submit a writing sample. Applicants who have not attended a Canadian university must submit with their applications the results of the Verbal, Analytical, and Quantitative aptitude tests of the Graduate Record Examination (GRE). Arrangements to take the GRE should be made directly with the Educational Testing Service by visiting their website at www.ets.org/gre.

Certain students must submit documented proof of competency in oral and written English. The minimum acceptable score for the TOEFL exam is 86 overall on the Internet-based test (iBT; no less than 20 in each of the four component scores). For more information on whether the TOEFL is required please visit www.mcgill.ca/gradapplicants/international/apply/proficiency. International students can also contact:

International Student Services
Brown Student Services Building
3600 McTavish Street, Suite 4400
Telephone: 514-398-4349
Website: www.mcgill.ca/internationalstudents

Candidates who lack sufficient preparation in the social sciences, but whose academic record justifies consideration for eventual admission to the master's graduate program, must register for a qualifying year during which they are required to take courses to broaden their knowledge of sociology. Candidates must achieve a final grade of at least a B in these courses and an average in all courses of at least B+; in general, they must, in the opinion of the Department, have achieved sufficient preparation in the subject matter of sociology before they will be allowed to proceed with graduate work. All candidates are expected to have taken courses in statistics, research methods, and sociological theory at the undergraduate level.

Prospective students are encouraged to contact faculty members that they may wish to work with to ascertain that they will be available and not on leave during the time at which they wish to study. If need be, they may feel free to contact the Graduate Program Director to guide them.

The program of study is designed to give students an advanced understanding of a major field in sociology, of current methods of sociological research, and of some principal theoretic issues in the discipline. Three terms of residence study is the minimum requirement for a master's degree. For the doctoral program, three years is the minimum residency requirement for students entering at the Ph.D. 1 level (those students without an M.A.) and two years for students entering at the Ph.D. 2 level (those with an M.A.).

3.11.25.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Please note that the dossier must be complete before the applicant will be considered for entrance to the graduate program.

3.11.25.31 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- GRE – required for applicants who have not attended a Canadian university
- Personal Statement
- Writing Sample – can be in the form of a graded paper or a chapter from a thesis and must be at least 15 typewritten pages in length translated into English or French

3.11.25.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Sociology Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term: N/A</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term: N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term: N/A</td>
<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: The Department Admissions Committee announces its selections by mid-March and the end of April.
### 3.11.25.4 Sociology Faculty

**Chair**
TBA

**Undergraduate Program Director**
TBA

**Graduate Program Director**
Jason Carmichael

**Professors**
- Shelley Clark; B.A.(Virg.), M.A., Ph.D.(Princ.) (*James McGill Professor*)
- John A. Hall; B.A.(Oxf.), M.A.(Penn. St.), Ph.D.(LSE) (*James McGill Professor*)
- Matthew Lange; B.A.(Carleton Coll.), M.A., Ph.D.(Brown)
- Céline Le Bourdais; B.Sc., M.Sc.(Montr.), Ph.D.(Brown) (*Canada Research Chair in Social Statistics and Family Change*)
- 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**
- Sarah Brauner-Otto; B.A.(Bates Coll.), M.S.W., Ph.D.(Mich.)
- Jason Carmichael; B.A.(Ariz. St.), M.A., Ph.D.(Ohio St.)
- Aniruddha (Bobby) Das; B.A.(Delhi), M.A.(Delaware), Ph.D.(Chic.)
- Amélie Quesnel-Vallée; B.S., M.S.(Montr.), M.S., Ph.D.(Duke) (*Canada Research Chair in Policies and Health Inequalities*)
- Eran Shor; B.A., M.A.(Haifa), M.A., Ph.D.(Stony Brook) (*William Dawson Scholar*)
- Zoua Vang; B.A.(Penn.), M.A., Ph.D.(Harv.)
- Elaine Weiner; B.A.(Grinnell Coll.), M.A.(Flor.), Ph.D.(Mich.)

**Assistant Professors**
- Jan Doering; M.A., Ph.D.(Chic.)
- Barry Eidlin; B.A.(Oberlin), M.A., Ph.D.(Calif., Berk.)
- Jennifer Elrick; B.A.(Qu.), M.A.(Guelph & Bochum), Ph.D.(Tor.)
- Peter McMahan; B.A.(Reed), M.P.P., Ph.D.(Chic.)
- Poulami Roychowdhury; B.A.(Swarth.), M.A., Ph.D.(NYU)
- Thomas Soehl; M.A.(CUNY), M.P.A.(Harv.), M.A., Ph.D.(Calif.-LA) (*Canada Research Chair in International Migration*)

**Associate Members**
- Alberto Cambrosio (*Social Studies of Medicine*)
- Jennifer Fishman (*Social Studies of Medicine – Biomedical Ethics Unit*)
- Matissa Hollister (*Faculty of Management*)
- Anthony Masi (*Faculty of Management*)
- Robert E. Whitley (*Psychiatry*)

**Adjunct Professor**
- Claudia Masferrer; B.Sc.(Inst. Tecnol. Autonomo Mexico), M.Sc.(Texas-Austin), Ph.D.(McG.)
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) (in memoriam)

Associate Professor (Post-Retirement)

Steven L. Rytina; B.G.S., Ph.D.(Mich.)

3.11.25.5 Master of Arts (M.A.) Sociology (Thesis) (45 credits)

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 690</td>
<td>(3)</td>
<td>M.A. Thesis 1</td>
</tr>
<tr>
<td>SOCI 691</td>
<td>(6)</td>
<td>M.A. Thesis 2</td>
</tr>
<tr>
<td>SOCI 693</td>
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<td>M.A. Thesis 5</td>
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Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOCI 504</td>
<td>(3)</td>
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<td>SOCI 580</td>
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<td>SOCI 600</td>
<td>(3)</td>
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<td>Professional Development Seminar in Sociology</td>
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<tr>
<td>SOCI 625D2</td>
<td>(0)</td>
<td>Professional Development Seminar in Sociology</td>
</tr>
<tr>
<td>SOCI 652</td>
<td>(3)</td>
<td>Current Sociological Theory</td>
</tr>
</tbody>
</table>

All students must have taken the required courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Course (3 credits)

One 3-credit course, which may be in a cognate field, chosen from the following (subject to the approval of the Graduate Committee.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 506</td>
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<td>SOCI 507</td>
<td>(3)</td>
<td>Social Change</td>
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<td>SOCI 508</td>
<td>(3)</td>
<td>Medical Sociology and Social Psychiatry</td>
</tr>
<tr>
<td>SOCI 510</td>
<td>(3)</td>
<td>Seminar in Social Stratification</td>
</tr>
<tr>
<td>SOCI 511</td>
<td>(3)</td>
<td>Movements/Collective Action</td>
</tr>
<tr>
<td>SOCI 512</td>
<td>(3)</td>
<td>Ethnicity &amp; Public Policy</td>
</tr>
<tr>
<td>SOCI 513</td>
<td>(3)</td>
<td>Social Aspects HIV/AIDS in Africa</td>
</tr>
<tr>
<td>SOCI 514</td>
<td>(3)</td>
<td>Criminology</td>
</tr>
<tr>
<td>SOCI 515</td>
<td>(3)</td>
<td>Medicine and Society</td>
</tr>
<tr>
<td>SOCI 516</td>
<td>(3)</td>
<td>Sociological Theory &amp; Research</td>
</tr>
<tr>
<td>SOCI 519</td>
<td>(3)</td>
<td>Gender and Globalization</td>
</tr>
<tr>
<td>SOCI 520</td>
<td>(3)</td>
<td>Migration and Immigrant Groups</td>
</tr>
<tr>
<td>SOCI 525</td>
<td>(3)</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>SOCI 529</td>
<td>(3)</td>
<td>Political Sociology 1</td>
</tr>
<tr>
<td>SOCI 530</td>
<td>(3)</td>
<td>Sex and Gender</td>
</tr>
<tr>
<td>SOCI 535</td>
<td>(3)</td>
<td>Sociology of the Family</td>
</tr>
</tbody>
</table>
SOCI 538  (3) Selected Topics in Sociology of Biomedical Knowledge
SOCI 545  (3) Sociology of Population
SOCI 550  (3) Developing Societies
SOCI 555  (3) Comparative Historical Sociology
SOCI 560  (3) Labour and Globalization
SOCI 571  (3) Deviance and Social Control
SOCI 588  (3) Biosociology/Biodemography
SOCI 590  (3) Social Conflict and Violence
SOCI 595  () Immigration Control and The State
SOCI 601  (3) Qualitative Research Methods 2
SOCI 621  (3) Fixed and Random Effects
SOCI 622  (3) Event History Analysis
SOCI 623  (3) Latent Variable Models
SOCI 624  (3) Social Networks
SOCI 631D1 (3) Informing Social Policy with Canadian Data
SOCI 631D2 (3) Informing Social Policy with Canadian Data
SOCI 720  (3) Reading in Social Theory
SOCI 730  (3) Reading and Research

3.11.25.6 Master of Arts (M.A.) Sociology (Thesis): Development Studies (45 credits)

The M.A. thesis must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

**Thesis Courses (30 credits)**

SOCI 690  (3) M.A. Thesis 1
SOCI 691  (6) M.A. Thesis 2
SOCI 693  (3) M.A. Thesis 4
SOCI 694  (18) M.A. Thesis 5

**Required Courses (15 credits)**

INTD 657  (3) Development Studies Seminar
SOCI 504*  (3) Quantitative Methods 1
SOCI 580*  (3) Social Research Design and Practice
SOCI 600*  (3) Qualitative Research Methods 1
SOCI 625D1 (0) Professional Development Seminar in Sociology
SOCI 625D2 (0) Professional Development Seminar in Sociology
SOCI 652*  (3) Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

3.11.25.7 Master of Arts (M.A.) Sociology (Thesis): Gender and Women's Studies (45 credits)

**Thesis Courses (27 credits)**

Preparation and completion of a thesis on a topic approved by the supervisor and by participating faculty members in the Gender and Women's Studies program.
Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 504*</td>
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<td>Quantitative Methods 1</td>
</tr>
<tr>
<td>SOCI 580*</td>
<td>3</td>
<td>Social Research Design and Practice</td>
</tr>
<tr>
<td>SOCI 600*</td>
<td>3</td>
<td>Qualitative Research Methods 1</td>
</tr>
<tr>
<td>SOCI 625D1</td>
<td>0</td>
<td>Professional Development Seminar in Sociology</td>
</tr>
<tr>
<td>SOCI 625D2</td>
<td>0</td>
<td>Professional Development Seminar in Sociology</td>
</tr>
<tr>
<td>SOCI 652*</td>
<td>3</td>
<td>Current Sociological Theory</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Course (3 credits)

3 credits at the 500, 600, or 700 level including:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

or one 3 credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside the Department).

3.11.25.8 Master of Arts (M.A.) Medical Sociology (Thesis) (45 credits)

This program is given jointly by the Sociology Department and the Department of Social Studies of Medicine.

Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 690</td>
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<td>M.A. Thesis 1</td>
</tr>
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<td>M.A. Thesis 2</td>
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<tr>
<td>SOCI 693</td>
<td>3</td>
<td>M.A. Thesis 4</td>
</tr>
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<td>SOCI 695</td>
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Required Courses (12 credits)

<table>
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 504*</td>
<td>3</td>
<td>Quantitative Methods 1</td>
</tr>
<tr>
<td>SOCI 580*</td>
<td>3</td>
<td>Social Research Design and Practice</td>
</tr>
<tr>
<td>SOCI 600*</td>
<td>3</td>
<td>Qualitative Research Methods 1</td>
</tr>
<tr>
<td>SOCI 625D1</td>
<td>0</td>
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<tr>
<td>SOCI 625D2</td>
<td>0</td>
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</tr>
<tr>
<td>SOCI 652*</td>
<td>3</td>
<td>Current Sociological Theory</td>
</tr>
</tbody>
</table>

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

3 credits, ONE of the following courses:
### Master of Arts (M.A.) Sociology (Non-Thesis) (45 credits)

#### Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 696</td>
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<td>Research Paper 1</td>
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<tr>
<td>SOCI 697</td>
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<td>Research Paper 2</td>
</tr>
<tr>
<td>SOCI 699</td>
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#### Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SOCI 504</td>
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<td>SOCI 580</td>
<td>(3)</td>
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<tr>
<td>SOCI 600</td>
<td>(3)</td>
<td>Qualitative Research Methods 1</td>
</tr>
<tr>
<td>SOCI 603</td>
<td>(3)</td>
<td>Bibliographic Methods 1</td>
</tr>
<tr>
<td>SOCI 604</td>
<td>(3)</td>
<td>Bibliographic Methods 2</td>
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<tr>
<td>SOCI 625D1</td>
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<tr>
<td>SOCI 625D2</td>
<td>(0)</td>
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</tr>
<tr>
<td>SOCI 652</td>
<td>(3)</td>
<td>Current Sociological Theory</td>
</tr>
</tbody>
</table>

All students must have taken these courses or take them during the first year of the program. Students granted and exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

#### Complementary Courses (9 credits)

9 credits (at the 500, 600 or 700 level), which may be in a cognate field, subject to the approval of the graduate committee.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>SOCI 506</td>
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<td>SOCI 507</td>
<td>(3)</td>
<td>Social Change</td>
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<td>(3)</td>
<td>Medical Sociology and Social Psychiatry</td>
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<td>(3)</td>
<td>Seminar in Social Stratification</td>
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<td>SOCI 511</td>
<td>(3)</td>
<td>Movements/Collective Action</td>
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<tr>
<td>SOCI 512</td>
<td>(3)</td>
<td>Ethnicity &amp; Public Policy</td>
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<tr>
<td>SOCI 513</td>
<td>(3)</td>
<td>Social Aspects HIV/AIDS in Africa</td>
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<tr>
<td>SOCI 514</td>
<td>(3)</td>
<td>Criminology</td>
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<tr>
<td>SOCI 515</td>
<td>(3)</td>
<td>Medicine and Society</td>
</tr>
<tr>
<td>SOCI 516</td>
<td>(3)</td>
<td>Sociological Theory &amp; Research</td>
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<td>SOCI 519</td>
<td>(3)</td>
<td>Gender and Globalization</td>
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<td>SOCI 520</td>
<td>(3)</td>
<td>Migration and Immigrant Groups</td>
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<td>SOCI 525</td>
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<td>Health Care Systems in Comparative Perspective</td>
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<td>SOCI 529</td>
<td>(3)</td>
<td>Political Sociology 1</td>
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<td>Sex and Gender</td>
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<td>Sociology of the Family</td>
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<tr>
<td>SOCI 538</td>
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<td>Selected Topics in Sociology of Biomedical Knowledge</td>
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<td>SOCI 545</td>
<td>(3)</td>
<td>Sociology of Population</td>
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<td>Labour and Globalization</td>
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<td>(3)</td>
<td>Informing Social Policy with Canadian Data</td>
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<tr>
<td>SOCI 720</td>
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<tr>
<td>SOCI 730</td>
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<td>Reading and Research</td>
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</tbody>
</table>

**3.11.25.10 Master of Arts (M.A.) Sociology (Non-Thesis): Development Studies (45 credits)**

The research essay must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

**Research Project (18 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
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<td>SOCI 697</td>
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<td>SOCI 699</td>
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<td>Research Paper 4</td>
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</table>

**Required Courses (21 credits)**

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<td>Development Studies Seminar</td>
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<tr>
<td>SOCI 504*</td>
<td>(3)</td>
<td>Quantitative Methods 1</td>
</tr>
<tr>
<td>SOCI 580*</td>
<td>(3)</td>
<td>Social Research Design and Practice</td>
</tr>
<tr>
<td>SOCI 600*</td>
<td>(3)</td>
<td>Qualitative Research Methods 1</td>
</tr>
<tr>
<td>SOCI 603</td>
<td>(3)</td>
<td>Bibliographic Methods 1</td>
</tr>
<tr>
<td>SOCI 604</td>
<td>(3)</td>
<td>Bibliographic Methods 2</td>
</tr>
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<td>SOCI 625D1*</td>
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</tr>
<tr>
<td>SOCI 625D2*</td>
<td>(0)</td>
<td>Professional Development Seminar in Sociology</td>
</tr>
<tr>
<td>SOCI 652*</td>
<td>(3)</td>
<td>Current Sociological Theory</td>
</tr>
</tbody>
</table>

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

**Complementary Courses (6 credits)**

6 credits of complementary courses at the 500, 600, or 700 level.

Assignments in the selected courses should focus topically on development issues.

**3.11.25.11 Master of Arts (M.A.) Sociology (Non-Thesis): Gender and Women’s Studies (45 credits)**

**Research Project (18 credits)**
Required Courses (21 credits)

- SOCI 504* (3) Quantitative Methods 1
- SOCI 580* (3) Social Research Design and Practice
- SOCI 600 (3) Qualitative Research Methods 1
- SOCI 603 (3) Bibliographic Methods 1
- SOCI 604 (3) Bibliographic Methods 2
- SOCI 625D1 (0) Professional Development Seminar in Sociology
- SOCI 625D2 (0) Professional Development Seminar in Sociology
- SOCI 652* (3) Current Sociological Theory
- WMST 601 (3) Feminist Theories and Methods

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level including:

- WMST 602 (3) Feminist Research Symposium

or one 3-credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside of the Department).

3.11.25.12 Master of Arts (M.A.) Medical Sociology (Non-Thesis) (45 credits)

This program is given jointly by the Sociology Department and the Department of Social Studies of Medicine.

Research Project (18 credits)

- SOCI 696 (3) Research Paper 1
- SOCI 697 (3) Research Paper 2
- SOCI 699 (12) Research Paper 4

Required Courses (18 credits)

- SOCI 504* (3) Quantitative Methods 1
- SOCI 580* (3) Social Research Design and Practice
- SOCI 600 (3) Qualitative Research Methods 1
- SOCI 603 (3) Bibliographic Methods 1
- SOCI 604 (3) Bibliographic Methods 2
- SOCI 625D1 (0) Professional Development Seminar in Sociology
- SOCI 625D2 (0) Professional Development Seminar in Sociology
- SOCI 652* (3) Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (9 credits)

3 credits, ONE of the following courses:
SOCI 515  (3)  Medicine and Society
SOCI 538  (3)  Selected Topics in Sociology of Biomedical Knowledge

3 credits, one graduate-level course in History of Medicine.
3 credits, one graduate-level course in Social Studies of Medicine.

3.11.25 Master of Arts (M.A.) Sociology (Non-Thesis): Population Dynamics (45 credits)

The Population Dynamics Option (PDO) is open to Masters (non-thesis) students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students’ knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focusses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research projects must be on a topic relating to population dynamics, approved by the PDO coordinating committee.

Research Project (18 credits)
SOCI 696  (3)  Research Paper 1
SOCI 697  (3)  Research Paper 2
SOCI 699  (12)  Research Paper 4

Required Courses (24 credits)
SOCI 504  (3)  Quantitative Methods 1
SOCI 545  (3)  Sociology of Population
SOCI 580  (3)  Social Research Design and Practice
SOCI 600  (3)  Qualitative Research Methods 1
SOCI 603  (3)  Bibliographic Methods 1
SOCI 604  (3)  Bibliographic Methods 2
SOCI 625D1  (0)  Professional Development Seminar in Sociology
SOCI 625D2  (0)  Professional Development Seminar in Sociology
SOCI 626  (3)  Demographic Methods
SOCI 652  (3)  Current Sociological Theory

All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar at the 500 level or higher in its place.

Complementary Course (3 credits)
3 credits at the 500 level or higher related to population dynamics selected from the following:
ECON 622  (3)  Public Finance
ECON 634  (3)  Economic Development 3
ECON 641  (3)  Labour Economics
ECON 734  (3)  Economic Development 4
ECON 741  (3)  Advanced Labour Economics
ECON 742  (3)  Empirical Microeconomics
ECON 744  (3)  Health Economics
EPIB 648  (3)  Methods in Social Epidemiology
EPIB 681  (3)  Global Health: Epidemiological Research
PPHS 501  (3)  Population Health and Epidemiology
3.11.25.14 Doctor of Philosophy (Ph.D.) Sociology

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
A minimum of three years of study is required.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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</tr>
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<td>SOCI 700</td>
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<td>Ph.D. Area Examination 1</td>
</tr>
<tr>
<td>SOCI 701</td>
<td>0</td>
<td>Ph.D. Area Examination 2</td>
</tr>
<tr>
<td>SOCI 702</td>
<td>0</td>
<td>Ph.D. Proposal Approval</td>
</tr>
<tr>
<td>SOCI 703</td>
<td>0</td>
<td>Bibliographic Methods 3</td>
</tr>
<tr>
<td>SOCI 704</td>
<td>0</td>
<td>Bibliographic Methods 4</td>
</tr>
</tbody>
</table>

Ph.D. candidates must take examinations in two subfields of Sociology. These fields will be chosen from the Department's areas of specialization. Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year.

Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor.

The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

Complementary Courses
(18-30 credits)

12 credits from substantive courses at the 500 level or higher offered by the Department subject to the approval of the Graduate Committee.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
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<tr>
<td>SOCI 501</td>
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<td>SOCI 502</td>
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<td>Sociology of Fertility</td>
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<td>SOCI 506</td>
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<td>SOCI 507</td>
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<td>SOCI 508</td>
<td>3</td>
<td>Medical Sociology and Social Psychiatry</td>
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<td>SOCI 510</td>
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<tr>
<td>Course Code</td>
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<td>SOCI 511</td>
<td>(3)</td>
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</tr>
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<td>SOCI 512</td>
<td>(3)</td>
<td>Ethnicity &amp; Public Policy</td>
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<tr>
<td>SOCI 520</td>
<td>(3)</td>
<td>Migration and Immigrant Groups</td>
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<td>SOCI 525</td>
<td>(3)</td>
<td>Health Care Systems in Comparative Perspective</td>
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<td>Political Sociology 1</td>
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<td>Sociology of Population</td>
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<td>Deviance and Social Control</td>
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<tr>
<td>SOCI 623</td>
<td>(3)</td>
<td>Latent Variable Models</td>
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<tr>
<td>SOCI 624</td>
<td>(3)</td>
<td>Social Networks</td>
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<td>SOCI 626</td>
<td>(3)</td>
<td>Demographic Methods</td>
</tr>
<tr>
<td>SOCI 631D1</td>
<td>(3)</td>
<td>Informing Social Policy with Canadian Data</td>
</tr>
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<td>SOCI 631D2</td>
<td>(3)</td>
<td>Informing Social Policy with Canadian Data</td>
</tr>
<tr>
<td>SOCI 720</td>
<td>(3)</td>
<td>Reading in Social Theory</td>
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<tr>
<td>SOCI 730</td>
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<td>Reading and Research</td>
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</table>

6 credits from one of the following streams:

**Qualitative Stream**

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 601</td>
<td>(3)</td>
<td>Qualitative Research Methods 2</td>
</tr>
<tr>
<td>SOCI 602</td>
<td>(3)</td>
<td>Comparative-Historical Methods</td>
</tr>
</tbody>
</table>

AND

3 credits from the following:

<table>
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<tr>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>(3)</td>
<td>Quantitative Methods 2</td>
</tr>
</tbody>
</table>
OR

Quantitative Stream:
6 credits from the following:

- SOCI 620 (3) Quantitative Methods 2
- SOCI 621 (3) Fixed and Random Effects
- SOCI 622 (3) Event History Analysis
- SOCI 623 (3) Latent Variable Models

If an exemption is obtained for one or both of the qualitative or quantitative stream courses above, another one must then be substituted in its place.

0-12 credits from the following:

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

- SOCI 504 (3) Quantitative Methods 1
- SOCI 580 (3) Social Research Design and Practice
- SOCI 600 (3) Qualitative Research Methods 1
- SOCI 652 (3) Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one must then be substituted in its place.

3.11.25 Doctor of Philosophy (Ph.D.) Sociology: Gender and Women's Studies

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

A minimum of three years of study is required.

Ph.D. candidates must take examinations in two subfields of sociology. These fields will be chosen from the Department's areas of specialization. Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year. Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years. Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at: http://www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

- SOCI 625D1 (0) Professional Development Seminar in Sociology
- SOCI 625D2 (0) Professional Development Seminar in Sociology
- SOCI 700 (0) Ph.D. Area Examination 1
- SOCI 701 (0) Ph.D. Area Examination 2
- SOCI 702 (0) Ph.D. Proposal Approval
- SOCI 703 (0) Bibliographic Methods 3
- SOCI 704 (0) Bibliographic Methods 4
- WMST 601 (3) Feminist Theories and Methods
- WMST 602 (3) Feminist Research Symposium
Research proposal is subject to Department approval and to approval by the participating faculty members in the Gender and Women’s Studies program.

**Complementary Courses (18-30 credits)**

6 credits from one of the following streams:

**Qualitative Stream**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
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</tbody>
</table>

AND

3 credits from the following:

<table>
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<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>(3)</td>
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<tr>
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<td>(3)</td>
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<td>(3)</td>
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<tr>
<td>SOCI 623</td>
<td>(3)</td>
<td>Latent Variable Models</td>
</tr>
</tbody>
</table>

OR

**Quantitative Stream**

6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>(3)</td>
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<tr>
<td>SOCI 621</td>
<td>(3)</td>
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</tr>
<tr>
<td>SOCI 623</td>
<td>(3)</td>
<td>Latent Variable Models</td>
</tr>
</tbody>
</table>

If an exemption is obtained for one or both of the qualitative or quantitative stream courses above, another one must then be substituted in its place.

12 credits from the following 500-, 600-, or 700-level courses chosen from among the elective courses listed in the Sociology Department course offerings.

Three of these four courses must be taken within the Department, one of the four must be on gender/women’s issues.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOCI 506</td>
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<td>Quantitative Methods 3</td>
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<tr>
<td>SOCI 507</td>
<td>(3)</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOCI 508</td>
<td>(3)</td>
<td>Medical Sociology and Social Psychiatry</td>
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<tr>
<td>SOCI 510</td>
<td>(3)</td>
<td>Seminar in Social Stratification</td>
</tr>
<tr>
<td>SOCI 512</td>
<td>(3)</td>
<td>Ethnicity &amp; Public Policy</td>
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<tr>
<td>SOCI 513</td>
<td>(3)</td>
<td>Social Aspects HIV/AIDS in Africa</td>
</tr>
<tr>
<td>SOCI 514</td>
<td>(3)</td>
<td>Criminology</td>
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<tr>
<td>SOCI 515</td>
<td>(3)</td>
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<td>SOCI 516</td>
<td>(3)</td>
<td>Sociological Theory &amp; Research</td>
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<td>SOCI 519</td>
<td>(3)</td>
<td>Gender and Globalization</td>
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<tr>
<td>SOCI 520</td>
<td>(3)</td>
<td>Migration and Immigrant Groups</td>
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<td>SOCI 525</td>
<td>(3)</td>
<td>Health Care Systems in Comparative Perspective</td>
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<td>SOCI 529</td>
<td>(3)</td>
<td>Political Sociology 1</td>
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<tr>
<td>SOCI 530</td>
<td>(3)</td>
<td>Sex and Gender</td>
</tr>
<tr>
<td>SOCI 535</td>
<td>(3)</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOCI 538</td>
<td>(3)</td>
<td>Selected Topics in Sociology of Biomedical Knowledge</td>
</tr>
</tbody>
</table>
Doctor of Philosophy (Ph.D.) Sociology: Population Dynamics

The Population Dynamics Option (PDO) is open to PhD students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students’ knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Dissertation topics must be related to population dynamics and approved by the PDO coordinating committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

A minimum of three years of study is required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOCI 545</td>
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<td>SOCI 625D1</td>
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<td>Professional Development Seminar in Sociology</td>
</tr>
<tr>
<td>SOCI 626</td>
<td>3</td>
<td>Demographic Methods</td>
</tr>
</tbody>
</table>
Ph.D. candidates must take examinations in two subfields of Sociology. These fields will be chosen from the Department's areas of specialization. In this option, one of these fields must be in Population Dynamics.

Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year. Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

**Complementary Courses**

(12-24 credits)

6 credits from substantive courses at the 500 level or higher subject to the approval of the Graduate Committee.

3 credits must be taken within the Department from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
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<td>SOCI 508</td>
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<tr>
<td>SOCI 624</td>
<td>3</td>
<td>Social Networks</td>
</tr>
<tr>
<td>SOCI 631D1</td>
<td>3</td>
<td>Informing Social Policy with Canadian Data</td>
</tr>
<tr>
<td>SOCI 631D2</td>
<td>3</td>
<td>Informing Social Policy with Canadian Data</td>
</tr>
<tr>
<td>SOCI 720</td>
<td>3</td>
<td>Reading in Social Theory</td>
</tr>
<tr>
<td>SOCI 730</td>
<td>3</td>
<td>Reading and Research</td>
</tr>
</tbody>
</table>

3 credits must be related to population dynamics from the list below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 622</td>
<td>3</td>
<td>Public Finance</td>
</tr>
<tr>
<td>ECON 634</td>
<td>3</td>
<td>Economic Development 3</td>
</tr>
<tr>
<td>ECON 641</td>
<td>3</td>
<td>Labour Economics</td>
</tr>
<tr>
<td>ECON 734</td>
<td>3</td>
<td>Economic Development 4</td>
</tr>
<tr>
<td>ECON 741</td>
<td>3</td>
<td>Advanced Labour Economics</td>
</tr>
<tr>
<td>ECON 742</td>
<td>3</td>
<td>Empirical Microeconomics</td>
</tr>
<tr>
<td>ECON 744</td>
<td>3</td>
<td>Health Economics</td>
</tr>
<tr>
<td>EPIB 648</td>
<td>3</td>
<td>Methods in Social Epidemiology</td>
</tr>
<tr>
<td>EPIB 681</td>
<td>3</td>
<td>Global Health: Epidemiological Research</td>
</tr>
<tr>
<td>PPHS 501</td>
<td>3</td>
<td>Population Health and Epidemiology</td>
</tr>
<tr>
<td>PPHS 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td>3</td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 528</td>
<td>3</td>
<td>Economic Evaluation of Health Programs</td>
</tr>
<tr>
<td>PPHS 529</td>
<td>3</td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
<tr>
<td>PPHS 615</td>
<td>3</td>
<td>Introduction to Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>SOCI 502</td>
<td>3</td>
<td>Sociology of Fertility</td>
</tr>
<tr>
<td>SOCI 512</td>
<td>3</td>
<td>Ethnicity &amp; Public Policy</td>
</tr>
<tr>
<td>SOCI 513</td>
<td>3</td>
<td>Social Aspects HIV/AIDS in Africa</td>
</tr>
<tr>
<td>SOCI 520</td>
<td>3</td>
<td>Migration and Immigrant Groups</td>
</tr>
<tr>
<td>SOCI 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>SOCI 535</td>
<td>3</td>
<td>Sociology of the Family</td>
</tr>
<tr>
<td>SOCI 588</td>
<td>3</td>
<td>Biosociology/Biodemography</td>
</tr>
</tbody>
</table>

6 credits from the following streams:

Qualitative Stream:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 601</td>
<td>3</td>
<td>Qualitative Research Methods 2</td>
</tr>
</tbody>
</table>

and

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>3</td>
<td>Quantitative Methods 2</td>
</tr>
<tr>
<td>SOCI 621</td>
<td>3</td>
<td>Fixed and Random Effects</td>
</tr>
<tr>
<td>SOCI 622</td>
<td>3</td>
<td>Event History Analysis</td>
</tr>
<tr>
<td>SOCI 623</td>
<td>3</td>
<td>Latent Variable Models</td>
</tr>
</tbody>
</table>
OR

Quantitative Stream:
6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>3</td>
<td>Quantitative Methods 2</td>
</tr>
<tr>
<td>SOCI 621</td>
<td>3</td>
<td>Fixed and Random Effects</td>
</tr>
<tr>
<td>SOCI 622</td>
<td>3</td>
<td>Event History Analysis</td>
</tr>
<tr>
<td>SOCI 623</td>
<td>3</td>
<td>Latent Variable Models</td>
</tr>
</tbody>
</table>

If an exemption is obtained for one or both of the qualitative or quantitative stream courses above, another one must then be substituted in its place.

0-12 credits from the following:

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 504</td>
<td>3</td>
<td>Quantitative Methods 1</td>
</tr>
<tr>
<td>SOCI 580</td>
<td>3</td>
<td>Social Research Design and Practice</td>
</tr>
<tr>
<td>SOCI 600</td>
<td>3</td>
<td>Qualitative Research Methods 1</td>
</tr>
<tr>
<td>SOCI 652</td>
<td>3</td>
<td>Current Sociological Theory</td>
</tr>
</tbody>
</table>

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one must then be substituted in its place.

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4 Faculty of Dentistry

4.1 Dean’s Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

4.2 Graduate and Postdoctoral Studies

4.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu, B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech, B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C/Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>
4.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

4.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

4.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

4.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

4.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

4.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.
4.7  Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

4.8  Postdoctoral Research

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

4.8.1  Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

4.8.2  Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status

i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment. Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges
i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:
   • to verify the Postdoc’s eligibility period for registration;
   • to provide Postdocs with departmental policy and procedures that pertain to them;
   • to oversee the registration and appointment of Postdocs;
   • to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
   • to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
   • to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
   • to include Postdocs in departmental career and placement opportunities;
   • to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:
   • to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
   • to provide guidance;
   • to meet regularly with their Postdocs;
   • to provide feedback on research submitted by the Postdocs;
   • to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
   • to provide mentorship for career development;
   • to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
   • to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
   • to submit a complete file for registration to Enrolment Services;
   • to sign and adhere to their Letter of Agreement for Postdoctoral Education;
   • to communicate regularly with their supervisor;
   • to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:
   • to register Postdocs;
   • to provide an appeal mechanism in cases of conflict;
   • to provide documented policies and procedures to Postdocs;
   • to provide Postdocs with the necessary information on McGill University student services.
4.8.3 **Vacation Policy for Graduate Students and Postdocs**

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

*Council of FGSR April 23, 1999*

4.8.4 **Leave of Absence for Health and Parental/Familial Reasons**

A leave of absence may be granted for maternity or parental reasons or for health reasons (see *University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status*).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in *University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status*.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at [www.mcgill.ca/gps/funding/getting-paid](http://www.mcgill.ca/gps/funding/getting-paid) under "Leave Policies and Form."

4.8.5 **Postdoctoral Research Trainees**

**Eligibility**

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

**Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

**Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

**Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

*Approved by Senate, April 2000; revised May 2014*
4.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

4.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

4.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

4.11.1 Dentistry

4.11.1.1 Location

Faculty of Dentistry
2001 McGill College Avenue, Suite 500
Montreal QC H3A 1G1
Canada
Telephone: 514-398-7203
Fax: 514-398-8900
Website: www.mcgill.ca/dentistry

4.11.1.2 About Dentistry

M.Sc. in Dental Sciences

The goal of this program is to train students in research in the dental sciences, which comprise a number of disciplines relating to the functioning of the oro-facial complex.

For the Thesis Master’s in Dental Sciences, we aim to train students to:

1. perform a literature review;
2. identify important issues in a specific field and understand the scientific approach to research questions;
3. carry out a scientific study and appropriately manage its data;
4. appreciate the ethics involved in animal and/or human research; and
5. express oneself clearly in science (when speaking and writing).

M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery

A residency training program in Oral and Maxillofacial Surgery provides candidates with a comprehensive background for the practice of Oral and Maxillofacial Surgery as a specialty.

During the four years of the program, candidates serve as residents principally at the Montreal General Hospital. During this time, residents are given increasing responsibility for the care of in-patients and out-patients, as well as being required to fulfil certain basic science courses and other assignments. A research project must be undertaken, followed by a master's thesis.

The program is open to one candidate per year.

section 4.11.1.5: Master of Science (M.Sc.) Dental Sciences (Thesis) (45 credits)

The goal of this program is to train students in research in the dental sciences, which comprise a number of disciplines relating to the functioning of the oro-facial complex.

section 4.11.1.6: Master of Science (M.Sc.) Dental Sciences (Thesis): Oral and Maxillofacial Surgery (46 credits)

McGill University, through the Faculty of Dentistry and the McGill University Health Centre, offers an advanced education program in Oral and Maxillofacial Surgery. The program is fully accredited by the Canadian Dental Association Accreditation Committee. It is a four-year program and commences on July 1 of each year.

section 4.11.1.7: Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

This Non-Thesis M.Sc. program offers students the possibility to explore new information on various research topics to supplement existing education. Students are able to "sample" various research areas without committing to a specific research topic or project by entering either the Basic Science stream or the Clinical and Populational Health stream. All non-thesis students are encouraged to seek volunteer and summer research opportunities with researchers in the Faculty to further their research experience.

This program provides students a great opportunity to clarify their interests, connect with faculty members, and engage with their cutting-edge research programs to seek additional career and training options (such as entering a Ph.D. program). This non-thesis option is not a residency program and does not provide clinical qualifications.

4.11.3 Dentistry Admission Requirements and Application Procedures
4.11.3.1 Admission Requirements

M.Sc. in Dental Sciences

Students who have successfully completed a B.A. with a CGPA of 3.0 on a 4.0 scale are eligible to apply for admission to a graduate program in the Faculty of Dentistry leading to the M.Sc. degree in Dental Sciences. TOEFL (or IELTS) test results are required for applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized Canadian institution (anglophone or francophone) or from a recognized foreign institution where English is the language of instruction.

The number of candidates accepted each year will depend on the elective courses and research facilities available that are applicable to the candidate’s area of expertise.

Bachelor’s students who have not obtained eligible qualifications will be required to make up for deficiencies in their academic profile by taking a Qualifying year.

M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery

Candidates for this program must possess a D.D.S. or D.M.D. degree or its equivalent, and be eligible for acceptance to the Ordre des dentistes du Québec as a training candidate in a hospital.

4.11.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery

This is a four-year M.Sc. thesis program. Applicants to the OMFS program must apply to the Certificate in Oral and Maxillofacial Surgery (not Graduate Studies) via the undergraduate online application system. Prior to the start of the third year, students will be requested to submit an application to the M.Sc. Dental Sciences – OMFS program (Graduate Studies program) via uApply in order to complete the program.

Further information may be obtained through the Dentistry website.
4.11.3.21 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Personal Statement
- Curriculum Vitae

4.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Faculty of Dentistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>M.Sc. in Dental Sciences (Thesis) and M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery</th>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td></td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>May 1</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
<td>Sept. 10</td>
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<td>Summer Term:</td>
<td>May 15</td>
<td>Jan. 15</td>
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<table>
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<tr>
<th>M.Sc. in Dental Sciences (Non-Thesis)</th>
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<th>Application Deadlines</th>
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<tr>
<td>All Applicants</td>
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<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>March 1</td>
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<td>Winter Term:</td>
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</tr>
<tr>
<td>Summer Term:</td>
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<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

4.11.4 Dentistry Faculty

Dean, Faculty of Dentistry
E. Emami

Associate Dean, Undergraduate Program
S. Esfandiari

Assistant Dean, Academic Services
S. Abi-Nader

Director, Clinic
N. Morin

Associate Dean, Graduate Studies and Research
M. Tabrizian

Director, Graduate Studies
S. Tran
Chief, Department of Dentistry and Oral and Maxillofacial Surgery
N. Makhoul

Director, OMFS Residency Training Program
G. Chiasson

Emeritus Professors
K.C. Bentley
F. Cervero
M. Gornitsky
H. Rosen
C.E. Smith

Professors
P.J. Allison
J.E. Barralet
G. Bennett
L. Diatchenko
J.S. Feine
M.D. McKee
D. Reinhardt
M. Tabrizian

Associate Professors
S. Abi-Nader
C. Bedos
V. Benhamou Cohen
J.V. Blomfield
H. Borsuk
P.J. Chauvin
A. Chehade
R.J. C. David
R. Emery
S. Esfandiari
A. Fakhry
I.M. Fried
G.J. Harasymowycz
E.M. Hershenfield
R. Hovey
M.T. Kaartinen
S. Komarova
O.S. Kopytov
H. Le-Moual
H.L. Levitt
M.E. MacDonald
### Associate Professors

- S.I. Miller
- F.I. Muroff
- M. Murshed
- J.M. Myers
- S. Nazhat
- B. Nicolau
- J.R. Pompura
- E. Raviv
- J.-M. Retrouvey
- M. Schwartz
- S. Schwartz
- E. Slapcoff
- L. Stone
- J.R. Zhang

### Assistant Professors


### D.M.D. Faculty Lecturers


### Adjunct Professors


### Associate Members

- M. Cerruti, E.L. Franco, S. Nazhat, R. St-Arnaud, H. Vali

### 4.11.1.5 Master of Science (M.Sc.) Dental Sciences (Thesis) (45 credits)

#### Thesis Courses (24-33 credits)
### Required Courses (6 credits)

- **DENT 663**  
  Introduction to Research  
- **DENT 671D1**  
  Advanced Research Seminar  
- **DENT 671D2**  
  Advanced Research Seminar  
- **EPIB 507**  
  Biostats for Health Sciences

* or equivalent

### Complementary Courses (6-15 credits)

6-15 credits chosen from the following courses:

- **ANAT 663D1**  
  Histology  
- **ANAT 663D2**  
  Histology  
- **DENT 504**  
  Biomaterials and Bioperformance  
- **DENT 654**  
  Mechanisms and Management of Pain  
- **DENT 655**  
  Health Technology Assessment  
- **DENT 664**  
  Introduction to Research Communication  
- **DENT 665**  
  Leadership and Management Skills in Research  
- **DENT 672**  
  Applied Mixed Methods in Health Research  
- **DENT 681**  
  Readings in Dentistry and Health Research 1  
- **DENT 682**  
  Readings in Dentistry and Health Research 2  
- **DENT 683**  
  Readings in Dentistry and Health Research 3  
- **DENT 685**  
  Theory of Dental Public Health  
- **EPIB 621**  
  Data Analysis in Health Sciences  
- **EPIB 635**  
  Clinical Trials  
- **EXMD 610**  
  Molecular Methods in Medical Research

Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

### 4.11.1.6 Master of Science (M.Sc.) Dental Sciences (Thesis): Oral and Maxillofacial Surgery (46 credits)

#### Thesis Courses (30 credits)

- **DENT 651**  
  Thesis Research 2  
- **DENT 652**  
  Thesis Research 3  
- **DENT 653**  
  Thesis Research 4

#### Required Courses (16 credits)

- **DENT 631**  
  OMFS 2 Seminar  
- **DENT 632**  
  Clinical OMFS 2  
- **DENT 641**  
  OMFS 3 Seminar
DENT 642 (3) Clinical OMFS 3
EPIB 607 (4) Inferential Statistics

4.11.1.7 Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

The M.Sc. degree should normally be completed within two years of full-time study.

Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DENT 655</td>
<td>3</td>
<td>Health Technology Assessment</td>
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<td>DENT 663</td>
<td>1</td>
<td>Introduction to Research</td>
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<td>DENT 670</td>
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<td>Dental Research Project</td>
</tr>
<tr>
<td>DENT 671D1</td>
<td>1</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>DENT 671D2</td>
<td>1</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>EPIB 507*</td>
<td>3</td>
<td>Biostats for Health Sciences</td>
</tr>
<tr>
<td>EPIB 600*</td>
<td>3</td>
<td>Clinical Epidemiology</td>
</tr>
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</table>

* or equivalent

Complementary Courses (27 credits)

27 credits from Stream 1 OR Stream 2:

Stream 1: Basic Science

24 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANAT 663D1</td>
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<td>Histology</td>
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<tr>
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<td>3</td>
<td>Histology</td>
</tr>
<tr>
<td>ANAT 690D1</td>
<td>3</td>
<td>Cell and Developmental Biology</td>
</tr>
<tr>
<td>ANAT 690D2</td>
<td>3</td>
<td>Cell and Developmental Biology</td>
</tr>
<tr>
<td>BMDE 505</td>
<td>3</td>
<td>Cell and Tissue Engineering</td>
</tr>
<tr>
<td>DENT 504</td>
<td>3</td>
<td>Biomaterials and Bioperformance</td>
</tr>
<tr>
<td>DENT 654</td>
<td>3</td>
<td>Mechanisms and Management of Pain</td>
</tr>
<tr>
<td>DENT 664</td>
<td>1</td>
<td>Introduction to Research Communication</td>
</tr>
<tr>
<td>DENT 665</td>
<td>1</td>
<td>Leadership and Management Skills in Research</td>
</tr>
<tr>
<td>DENT 669</td>
<td>3</td>
<td>Extracellular Matrix Biology</td>
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<td>DENT 673</td>
<td>3</td>
<td>Biotechnology and Entrepreneurship</td>
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<td>DENT 681</td>
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<tr>
<td>DENT 682</td>
<td>2</td>
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<td>DENT 683</td>
<td>3</td>
<td>Readings in Dentistry and Health Research 3</td>
</tr>
<tr>
<td>PHGY 517</td>
<td>3</td>
<td>Artificial Internal Organs</td>
</tr>
<tr>
<td>PHGY 518</td>
<td>3</td>
<td>Artificial Cells</td>
</tr>
<tr>
<td>PHGY 550</td>
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<td>Molecular Physiology of Bone</td>
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3 credits from:

<table>
<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EXMD 609</td>
<td>3</td>
<td>Cellular Methods in Medical Research</td>
</tr>
<tr>
<td>EXMD 610</td>
<td>3</td>
<td>Molecular Methods in Medical Research</td>
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</table>
Stream 2: Clinical and Populational Health

24 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DENT 664</td>
<td>1</td>
<td>Introduction to Research Communication</td>
</tr>
<tr>
<td>DENT 665</td>
<td>1</td>
<td>Leadership and Management Skills in Research</td>
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<tr>
<td>DENT 672</td>
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<td>Applied Mixed Methods in Health Research</td>
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<tr>
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</tr>
<tr>
<td>DENT 682</td>
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<tr>
<td>DENT 683</td>
<td>3</td>
<td>Readings in Dentistry and Health Research 3</td>
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<td>Theory of Dental Public Health</td>
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<td>EDEM 692</td>
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<td>Qualitative Research Methods</td>
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<tr>
<td>EPIB 623</td>
<td>3</td>
<td>Research Design in Health Sciences</td>
</tr>
<tr>
<td>EPIB 635</td>
<td>3</td>
<td>Clinical Trials</td>
</tr>
<tr>
<td>EPIB 641</td>
<td>1</td>
<td>Substantive Epidemiology 1</td>
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<tr>
<td>EPIB 660</td>
<td>3</td>
<td>Practical Aspects: Protocol Development</td>
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<tr>
<td>EPIB 669</td>
<td>2</td>
<td>Special Topics 2</td>
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<tr>
<td>EPIB 671</td>
<td>2</td>
<td>Cancer Epidemiology and Prevention</td>
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<td>3</td>
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3 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 672</td>
<td>3</td>
<td>Applied Mixed Methods in Health Research</td>
</tr>
</tbody>
</table>

Other complementary 500- or 600-level courses at the University may be taken with the approval of the director of the program and GPS.

5 Faculty of Education

5.1 Dean’s Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies
5.2 Graduate and Postdoctoral Studies

5.2.1 Administrative Officers

Administrative Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkänen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

5.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

5.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

5.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

5.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

5.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates
5.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

5.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

5.8 Postdoctoral Research

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

5.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

5.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.

   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars).
Responsibilities

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

- to verify the Postdoc’s eligibility period for registration;
- to provide Postdocs with departmental policy and procedures that pertain to them;
- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
- to include Postdocs in departmental career and placement opportunities;
- to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

- to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
- to provide research guidance;
- to meet regularly with their Postdocs;
- to provide feedback on research submitted by the Postdocs;
- to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
- to provide mentorship for career development;
- to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

5.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

5.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under "Leave Policies and Form."

5.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.
General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

5.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

5.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

5.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

5.11.1 Educational and Counselling Psychology

5.11.1.1 Location

Department of Educational and Counselling Psychology
Education Building, Room 614
3700 McTavish Street
5.11.1.2 About Educational and Counselling Psychology

The Department of Educational and Counselling Psychology (ECP) programs and research examine the interplay between complex human systems (cognitive, social, emotional, behavioural, and biological) to maximize:

a. learning
b. wellness (mental and physical)
c. human development

in multiple settings and throughout the lifespan. More specifically, they examine issues pertaining to cognitive processes and developmental neuroscience, assessment and intervention, and the design and evaluation of learning environments and instructional practices, with both typical and atypical populations in mind. While ECP’s primary disciplinary bases are psychology and education, it contributes to and is enriched by extended interdisciplinary collaborations with, among others, medicine and other health professions; neurosciences; computer science; science; social work and policy; and law.

Students in our programs benefit from having access to the McGill Psychoeducational and Counselling Clinic and the Departmental Assessment Materials Resource Centre. To develop their professional skills in assessment, therapy, and supervision, students are equipped with the latest standardized materials and a state-of-the-art venue within which to conduct psychological and cognitive assessments.

Our professional programs also have established connections with world-class public and private organizations, which include health care facilities and school boards where students receive supervised training for internships and practica. Our faculty members are involved in intra- and interdisciplinary collaborative research locally, nationally, and internationally. These networks offer students valuable exposure to, and connection with, different research laboratories, research leaders, and professional organizations. Students benefit from international mobility programs and specialized training offered in specific locations. Working closely with faculty members in their research teams, our students enrolled in research-based M.A. and Ph.D. programs have proven very successful in obtaining major external fellowships from bodies such as SSHRC, FQRSC, FRQS, and CIHR.

Our graduates secure careers in a varied and rewarding range of settings. These include, but are not limited to: academic and research settings; professional psychology (counselling and school psychology); specialized and innovative teaching; educational research; development and leadership at all levels (e.g., schools, colleges and universities; school boards; ministries of education); staff development; and education in the professions.

Detailed graduate degree descriptions are available in the following sections:

- section 5.11.1.2: Graduate Degrees in Counselling Psychology
- section 5.11.1.2: Graduate Degrees in School/Applied Psychology
- section 5.11.1.2: Graduate Degrees in Educational Psychology

Master of Arts (M.A.) Degrees

Students can obtain an M.A. degree in:

1. Counselling Psychology (Non-Thesis) with major concentrations in:
   - Professional/Internship (coursework and internship based)
   - Project (coursework and research based)
2. School/Applied Child Psychology (Non-Thesis)
3. Educational Psychology with a Major in:
   - School/Applied Child Psychology
4. Educational Psychology with concentrations in:
   - Health Professions Education
   - Human Development
   - Learning Sciences

Master of Education (M.Ed.) Degrees

Students can obtain an M.Ed. degree in Educational Psychology. Please note these are all non-thesis options. The M.Ed. program in Educational Psychology offers concentrations in:

- Family Life Education (admissions to this concentration are currently suspended)
- General Educational Psychology
• General Educational Psychology (Project)
• Inclusive Education
• Inclusive Education (Project)
• Learning Sciences

**Doctor of Philosophy (Ph.D.) Degrees**

Students can obtain a Ph.D. degree in:

1. Counselling Psychology
2. Educational Psychology with concentrations in:
   • Human Development
   • Learning Sciences
3. School/Applied Child Psychology

**Postdoctoral Degrees**

The Department of Educational and Counselling Psychology offers one postdoctoral diploma:

• Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

**Advising**

For information about these graduate programs please view our website at [www.mcgill.ca/edu-ecp/prospective](http://www.mcgill.ca/edu-ecp/prospective). Please contact us at admissions.ecp@mcgill.ca for any questions related to the admissions process for any of the above programs.

**Professional Accreditation**

The Ph.D. in School/Applied Child Psychology is accredited by the Canadian Psychological Association (CPA). The Ph.D. in Counselling Psychology is also accredited by the CPA. The *Ordre des psychologues du Québec* (OPQ) accredits both the Ph.D. in Counselling Psychology and the Ph.D. in School/Applied Child Psychology.

**Note:** The APA no longer accredits programs outside of the United States of America effective September 1, 2015. The implication of this decision for students is that those who graduate from our programs after this date cannot attest to having graduated from an APA-accredited program. For further information regarding APA accreditation, see: [www.apa.org/ed/accreditation/index.aspx](http://www.apa.org/ed/accreditation/index.aspx).

**Important addresses:**

**CPA**
141 Laurier Avenue West, Suite 702
Ottawa ON K1P 5J3, Canada
Telephone: 613-237-2144; 1-888-472-0657
Email: cpa@cpa.ca

**OCCOQ**
1600 Henri Bourassa Blvd. West, Suite 520
Montreal QC H3M 3E2, Canada
Telephone: 514-737-4717; 1-800-363-2643
Email: ordre@orientation.qc.ca

**OPQ**
1100 Beaumont, Suite 510
Mount-Royal QC H3P 3H5, Canada
Telephone: 514-738-1881; 1-800-363-2644
Email: info@ordrepsy.qc.ca

Graduate degrees in Counselling Psychology or School/Applied Child Psychology, and elsewhere in Educational Psychology, do not lead to teaching certification—see the Faculty of Education’s *Undergraduate* section for B.Ed. programs. Holders of other undergraduate degrees may apply to enter the B.Ed. with Advanced Standing.

**Research/Training Facilities**

The Department houses a number of training and research units and maintains working relationships with specialized centres and research groups that offer opportunities for training and research to selected students. For a comprehensive list of such groups, consult our [website](http://www.mcgill.ca/edu-ecp/prospective).

**Graduate Degrees in Counselling Psychology**

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Graduate and Postdoctoral Studies

Graduate Degrees in School/Applied Psychology

Section 5.11.1.5: Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Professional/Internship (60 credits)

The aim of this program is to produce graduates who:

1. are trained in the major applied areas of counselling;
2. will be qualified to work in a variety of settings where educational, vocational, personal, and developmental counselling is offered; and
3. have had an extensive supervised internship in either a clinical or educational setting.

To do so, the training program emphasizes career and vocational theory and development, individual and group counselling skills, the integration of multicultural, gender, and other diversity theories into practice, and diagnosis and assessment procedures.

Students take a combination of theoretical and practical courses throughout the completion of their degree. Most coursework is taken during their first year (including the Summer term) while also completing a practicum in the Department's Psychoeducational and Counselling Clinic. In their second year, students are on-site at internship placements for three full days per week while attending classes on their remaining two days.

Accredited upon graduation by the Ordre des conseillers et conseillères d’orientation du Québec (OCCOQ), this program prepares students to work in the field as Counsellors in settings such as CLSCs, schools, community, rehabilitation, and vocational guidance centres, governmental, non-governmental, or private settings. All students must also attend weekly case conferences.

For further information, consult the website.

Section 5.11.1.6: Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Project (60 credits)

This program is designed to produce graduates with introductory academic preparation for research or clinical careers in counselling psychology. Training is provided in the research domain through coursework in data analysis and a research project. Clinical preparation is initiated in the program through coursework in ethics, intervention, assessment, psychological testing, and multicultural issues and through a practicum. Most coursework is taken during the student's first year of studies while beginning work on their research projects. In their second year, students gain practical experience via a practicum in the Department’s Psychoeducational and Counselling Clinic while also completing the majority of their work on the research project. The degree alone does not fulfill the requirements for membership in the orders that certify either guidance counsellors (OCCOQ) or psychologists (OPQ) in Quebec.

For further information, consult the website.

Section 5.11.1.7: Doctor of Philosophy (Ph.D.) Counselling Psychology

Student pursuing a Ph.D. in Counselling Psychology take a combination of theoretical, practical, and research-based courses throughout the duration of their degree. It draws upon a number of different sciences (including developmental, social, career and neuropsychology and personality theory) to develop critically astute researchers and exceptionally skilled clinicians. Building on the M.A. in Counselling Psychology (Project concentration), or equivalent, the program offers opportunities in Practicum, Supervision, and full-year Internships to develop clinical skills while also working toward the completion of a doctoral dissertation (thesis). The Ph.D. program, has the following aims:

1. To contribute to the advancement of knowledge in the field of counselling psychology.
2. To practise from a strong evidence base.
3. To take a leadership role in community, professional, and university organizations in counselling psychology.

Graduates of the program will be prepared to assume careers in education and community settings, including faculty positions, counselling and psychological positions on the staff of university and college mental health centres, and professional positions in psychological agencies offering preventative mental health services. The program is currently accredited by the Canadian Psychological Association (CPA), and the Ordre des psychologues du Québec (OPQ) (Please note that the APA no longer accredits programs outside of the United States of America). Graduates are eligible for licensure in Quebec.

For further information, consult the website.

Graduate Degrees in School/Applied Psychology

Section 5.11.1.8: Master of Arts (M.A.) School/Applied Child Psychology (Non-Thesis) (60 credits)

The School/Applied Child Psychology program at McGill University prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Course work, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill's scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill's School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill become leaders in research and higher education, school-based practice, hospital-based positions, independent practice, mental health centres, and policy-making roles.

Section 5.11.1.9: Doctor of Philosophy (Ph.D.) School/Applied Child Psychology

The Ph.D. in School/Applied Child Psychology is the second degree in a combined M.A. and Ph.D. program with the M.A. (Thesis) in Educational Psychology's School/Applied Child Psychology concentration. Most students in the doctoral program completed their M.A. in the Educational Psychology program although students can apply for direct entry into the Ph.D. program with a master's degree obtained at another institution. At both the M.A. and
section 5.11.1.9: Doctor of Philosophy (Ph.D.) School/Applied Child Psychology

Ph.D. levels, students take a combination of theoretical, practical, and research-based courses throughout the course of their degree. Students will produce a thesis at both levels of study.

Extending upon the M.A. degree, the program's focus remains on the improvement of the educational and psychological well-being of children and to educate school psychologists in a manner consistent with the highest international standards in the field. Students explore a variety of topics including mental health, child development, school organization, learning processes, behaviour, motivation, and effective teaching. They are prepared to become inquiring professionals committed to the development of children and youth and receive intensive training of clinical practice with children and families, as well as basic and applied research.

The program develops clinical skills through intensive assessment courses, a Clinic Practicum, Field Placement, and a full-year Internship. Typically, our graduates go on to practise school psychology across a range of environments including private practice, academia, hospitals, and school boards. The Ph.D. program is accredited by the Canadian Psychological Association (CPA) and the Ordre des psychologues du Québec (OPQ) (Please note that the APA no longer accredits programs outside of the United States of America). Graduates are eligible for licensure in Quebec.

For further information, consult the website.

section 5.11.1.10: Graduate Diploma (Gr. Dip.) School/Applied Child Psychology (Post-Ph.D.)

Note: Applications to the Post-Ph.D program are suspended until further notice.

This post-Ph.D. graduate diploma enables holders of a doctorate in Psychology to pursue further studies in School/Applied Child Psychology. The course of study is adapted to the background of each student. The program includes exceptionally one, or typically two, years of courses and practica, plus a year of Internship. Students register on a per-credit basis (including Internship).

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this postdoctoral graduate diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the Canadian Psychological Association (CPA). Graduates of a re-specialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the postdoctoral graduate diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

For further information, consult the website.

Graduate Degrees in Educational Psychology

Master of Education (M.Ed.); Educational Psychology (Non-Thesis) (48 credits)

The Master of Education (M.Ed.) degree offers educators and practising professionals advanced professional training in areas where educational psychology can make a practical contribution to the design, delivery, and assessment of educational programs and the impact of these programs on student learning. Courses aim to promote:

1. a greater understanding of human development, individual differences, and the learning process;
2. a greater understanding on classroom processes and strategies for teaching diverse learners in a variety of contexts;
3. the evaluation of student learning, teaching, programs, and educational experimentation and innovation; and
4. the application of results of educational research.

The program offers the following concentrations of study:

a. Family Life Education: Admission to this concentration is currently suspended.
   See section 5.11.1.11: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Family Life Education (48 credits).

b. General Educational Psychology: Permits students with very specific experiences and career paths to tailor the program to their particular situations. Students may draw courses from other concentrations within the M.Ed. programs including Inclusive Education, Learning Sciences, or any other general Departmental courses. This program suits students with very unique program needs in Educational Psychology.
   See section 5.11.1.12: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology (48 credits).

c. General Educational Psychology (Project) Provides students with an interest in the General Educational Psychology concentration the opportunity to focus on an issue in the field and complete a research project in place of course work (12 credits).
## Master of Education (M.Ed.); Educational Psychology (Non-Thesis) (48 credits)

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<th>Section</th>
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<td>d.</td>
<td>Inclusive Education: Prepares students to work with diverse individuals in a variety of settings that emphasize inclusive practice. As most professional and educational contexts are becoming more diverse, this program has wide appeal and is relevant to current teachers, consultants, other professionals working in the education system, and to those wishing to understand human development and potential in all inclusive contexts. See [section 5.11.1.14: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education (48 credits)].</td>
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<td>e.</td>
<td>Inclusive Education (Project): Provides students with an interest in the Inclusive Education concentration the opportunity to focus on an issue in the field and complete a research project in place of course work (12 credits). See [section 5.11.1.15: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education: Project (48 credits)].</td>
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<td>f.</td>
<td>Learning Sciences: Focuses on the study of learning as it occurs in real-world situations and ways in which learning may be facilitated in designed environments. See [section 5.11.1.16: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Learning Sciences (48 credits)].</td>
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The M.Ed. program has been developed for students who have a background in education (B.Ed.), psychology, or another related degree. Students have the option of conducting academic or applied research (via a 12-credit Research Project or Special Activity) to enhance the applied experience of learning. The academic staff who teach and supervise within the program understand both research and applied contexts such as the school system. Courses are offered in the evening to accommodate full-time professionals and can be completed on either a full-time or part-time basis.

Many of our graduates work in the school system as resource teachers, special education, or educational consultants. Others work in or create special tutorial programs or family/child programs for students with difficulties, or in specialized settings (e.g., hospital programs), and others have moved on into our doctoral program in Human Development.

For further information, consult the [website](http://www.mcgill.ca/edu-ecp/programs/learningsci).

## Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits) (Note that the School/Applied Child Psychology Major (Non-Thesis) is 60 credits.)

The aim of the M.A. (Thesis) in Educational Psychology is to produce graduates who:

1. are broadly trained in educational psychology;
2. have sufficient research competence to critically evaluate research in educational psychology, and to design, conduct, and report empirical research; and
3. have experience in applying research methods and findings to the solution of practical problems in varied educational settings.

Candidates are required to select and follow the set of courses in one of three concentrations of study or the Major in School/Applied Child Psychology, select a topic for research, and present the results of such research in a thesis.

The program offers three concentrations and one major:

1. **The Health Professions Education concentration** ([www.mcgill.ca/edu-ecp/programs/healthprofessions](http://www.mcgill.ca/edu-ecp/programs/healthprofessions)) is dedicated to the preparation of qualified researchers, developers, and practitioners who can advance the scientific understanding and practice of teaching and learning as they happen in the health professions and throughout the lifespan. The program is for health professionals who are interested in conducting educational research and working on development projects (e.g., program, curriculum, faculty) as well as for educational psychology graduate students who are interested in issues related to medical education and education in other health professions.

   The program will produce a graduate who can recognize the role of education in a health professions context, who has sufficient research competence to conduct empirical research in health education settings, and who can apply research results to solve practical problems in this field. Student admission and supervision is done jointly with the Centre for Medical Education.

   See [section 5.11.1.17: Master of Arts (M.A.) Educational Psychology (Thesis): Health Professions Education (48 credits)].

2. **The Human Development concentration** ([www.mcgill.ca/edu-ecp/programs/humandev](http://www.mcgill.ca/edu-ecp/programs/humandev)) is intended to prepare students from education and psychology backgrounds to work in school, institutional, and university settings. The degree prepares candidates to support the educational and psychological well-being of individuals, to use research to critically inform practice, and to be able to conceptualize and conduct applied and theoretical research related to different trajectories of human development and varied educational settings. The program follows a mentorship model that encourages students’ active participation in research and prepares them for academia and leadership roles in the field.

   The program is unique in exploring development including cognitive, language, social, personality, and gender development issues in children and adolescents from the diverse perspectives of our multidisciplinary faculty. For example, students are exposed to clinical and non-clinical perspectives on developmental issues; these perspectives are then employed to better understand issues related to disabilities and individuals’ diverse needs in educational and community settings. Most students in this program go on to pursue studies at the Ph.D. level.

   See [section 5.11.1.18: Master of Arts (M.A.) Educational Psychology (Thesis): Human Development (45 credits)].

3. **The Learning Sciences concentration** ([www.mcgill.ca/edu-ecp/programs/learningsci](http://www.mcgill.ca/edu-ecp/programs/learningsci)) aims to develop competent and inquiring professionals who have the skills to understand and improve learning and teaching by way of conceptualizing and conducting applied and theoretical research in different formal and informal educational settings. It is dedicated to the preparation of qualified researchers, developers, and practitioners who can advance the scientific understanding and practice of teaching and learning in schools, colleges and universities, the workplace and professional practice, as well as virtual learning communities. Students acquire theoretical and practical knowledge through coursework, team-based research assistantships, and apprenticeships where appropriate.
Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits) (Note that the School/Applied Child Psychology Major (Non-Thesis) is 60 credits.)

The profiles of our graduates speak to the flexibility and application of acquired skills and competencies in a range of professions. These include academic positions around the world, positions in school boards and hospital education programs, researchers involved in educational and institutional research and policy development, training and education specialists in business and industry, medical education researchers, and faculty developers.

See section 5.11.1.19: Master of Arts (M.A.) Educational Psychology (Thesis): Learning Sciences (45 credits).

Major:

1. The School/Applied Child Psychology Major (www.mcgill.ca/edu-ecp/programs/schoolpsych) is a combined M.A. and Ph.D. program with the doctoral degree in School/Applied Child Psychology. Most students who enrol in the master’s program continue to pursue studies at the doctoral level, although students can apply for direct entry into the Ph.D. program with a master’s degree obtained at another institution. The program’s focus is on the improvement of the educational and psychological well-being of children and educates school psychologists in a manner consistent with the highest international standards in the field. Students explore a variety of topics including mental health, child development, school organization, learning processes, behaviour, motivation, and effective teaching, and are prepared to become inquiring professionals committed to the development of children and youth. Therefore, students receive intensive training of clinical practice with children and families, as well as basic and applied research.

To do so at both the M.A. and Ph.D. level, students take a combination of theoretical, practical, and research-based courses throughout the course of their degree. Students will produce a thesis at both levels of study. Our students go on to practise school psychology across a range of environments including private practice, academia, hospitals, and school boards.

See section 5.11.1.8: Master of Arts (M.A.) School/Applied Child Psychology (Non-Thesis) (60 credits).

Doctor of Philosophy (Ph.D.); Educational Psychology

The aim of the Ph.D. in Educational Psychology emphasizes the development of research skills and supports both basic and applied research pertaining to all domains of educational psychology. It aims to develop graduates who can demonstrate:

1. broad scholarship in planning and implementing basic and applied research on problems of cognition, teaching, learning, and human development;
2. mastery of current theoretical issues in educational psychology and their historical development; and
3. a detailed knowledge of their selected concentration.

The program offers two concentrations:

1. Human Development concentration: (www.mcgill.ca/edu-ecp/programs/humandev) The Human Development concentration builds upon the M.A. program and is intended to prepare students to work in school, institutional, and university settings. The degree prepares candidates to support the educational and psychological well-being of individuals, to use research to critically inform practice, and to be able to conceptualize and conduct applied and theoretical research related to different trajectories of human development and varied educational settings. The program follows a mentorship model that encourages students’ active participation in research and prepares them for academia and leadership roles in the field.

The Human Development program is unique in exploring development including cognitive, language, social, personality, and gender development issues in children and adolescents from the diverse perspectives of our multidisciplinary faculty. These perspectives are then employed to better understand issues related to disabilities and individuals’ diverse needs in educational and community settings.

See section 5.11.1.21: Doctor of Philosophy (Ph.D.) Educational Psychology: Human Development.

2. Learning Sciences concentration: (www.mcgill.ca/edu-ecp/programs/learningsci) The Learning Sciences concentration builds upon the M.A. program and continues its aim of developing competent and inquiring professionals who have the skills to understand and improve learning and teaching by way of conceptualizing and conducting applied and theoretical research in different formal and informal educational settings. It is dedicated to the preparation of qualified researchers, developers, and practitioners who can advance the scientific understanding and practice of teaching and learning.

The settings could be schools, colleges and universities, the workplace and professional practice, as well as virtual learning communities. Students acquire theoretical and practical knowledge through coursework, team-based research assistantships, and apprenticeships where appropriate.

See section 5.11.1.22: Doctor of Philosophy (Ph.D.) Educational Psychology: Learning Sciences.

5.11.1.3 Educational and Counselling Psychology Admission Requirements and Application Procedures

Please refer to the admission requirements and application procedures for the following programs:

- section 5.11.1.3.1: M.A. in Counselling Psychology (Non-Thesis)
- section 5.11.1.3.2: Ph.D. in Counselling Psychology
- section 5.11.1.3.3: Ph.D. in School/Applied Child Psychology
- section 5.11.1.3.4: Post-Ph.D. Graduate Diploma in School/Applied Child Psychology
- section 5.11.1.3.5: M.Ed. in Educational Psychology (Non-Thesis)
- section 5.11.1.3.6: M.A. in Educational Psychology (Thesis)
section 5.11.3.1. M.A. in Counselling Psychology (Non-Thesis)

The M.A. in Counselling Psychology program offers the following two concentrations:

1. Professional/Internship (coursework and internship based)
2. Project (research based)

5.11.3.1.1 Admission Requirements

Concentration: Professional/Internship

To be eligible, applicants must hold a baccalaureate degree consisting of 18 credits of core courses in specific Psychology domains and 24 credits in related disciplines in the social sciences (see list in the Pre-Admission Academic Checklist) and a minimum Cumulative Grade Point Average (CGPA) of 3.0 out of a possible 4.0 or a Grade Point Average (GPA) of 3.2 out of 4.0 in the last two years of full-time studies. For more information please visit our website.

Concentration: Project

To be eligible, applicants must hold a baccalaureate degree in psychology consisting of 42 credits of core courses in specific domains (see list in the Pre-Admission Academic Checklist), with a minimum CGPA of 3.0 out of a possible 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies at the undergraduate level. For more information please visit our website.

5.11.3.1.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations and Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

5.11.3.1.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Statement of Research Interest and Preferred Supervisor(s) – for applicants to the Project concentration
- Interview – for applicants to the Professional/Internship concentration
- M.A. in Counselling Psychology Pre-Admission Academic Checklist

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Counselling Psychology: Project and Professional/Internship concentrations, can be found on the Departmental website.

5.11.3.2 Ph.D. in Counselling Psychology

5.11.3.2.1 Admission Requirements

To be eligible applicants must hold:

A master’s degree equivalent to the section 5.11.6: Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Project (60 credits) or a Master's degree from a directly relevant program (e.g., clinical psychology, other Counselling Psychology programs) along with 42 credits of core courses in specific Psychology domains (see list in the Pre-Admission Academic Checklist), with a minimum CGPA of 3.0 out of a possible 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

5.11.3.2.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

5.11.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Statement of Research Interest and Preferred Supervisor(s)
- Written Work
- Ph.D. Pre-Admission Academic Checklist

Information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in Counselling Psychology can be found on the Department’s website.
5.11.1.3.3 Ph.D. in School/Applied Child Psychology

5.11.1.3.3.1 Admission Requirements

To be eligible applicants must hold:

A master's degree equivalent to the section 5.11.1.8: Master of Arts (M.A.) School/Applied Child Psychology (Non-Thesis) 60 credits along with 42 credits of core courses in specific domains (see list in the Pre-Admission Academic Checklist) with a minimum CGPA of 3.0 out of 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

All doctoral students must have a research supervisor upon entry to the program. Interested candidates should consult the Departmental website for a list of faculty members and their research interests. A supervisor must be selected from among professors in the School/Applied Child Psychology program.

5.11.1.3.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

5.11.1.3.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Written Work
- Ph.D. Pre-Admission Academic Checklist

Please note that the GRE is no longer required. Further information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in School/Applied Child Psychology can be found on the Department's website.

5.11.1.3.4 Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

5.11.1.3.4.1 Admission Requirements

Please note that admission to the Post-Ph.D. program is currently suspended.

An earned doctorate in Educational Psychology, another area of Psychology, or a closely related discipline (to be recognized at the Program Director's discretion).

5.11.1.3.4.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

Information on application procedures, deadlines, supporting documents, and contact information for the Post-Ph.D. Graduate Diploma in School/Applied Child Psychology can be found on the Department's website.

5.11.1.3.5 M.Ed. in Educational Psychology (Non-Thesis)

This program offers six concentrations:

1. Learning Sciences
2. General Educational Psychology
3. General Educational Psychology: Project
4. Inclusive Education
5. Inclusive Education: Project
6. Family Life Education (admission to the Family Life Concentration is currently suspended)

5.11.1.3.5.1 Admission Requirements

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology. It is recommended that some prior study of a relevant branch of psychology form part of the undergraduate training.
2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

5.11.1.3.5.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

Information on application procedures, deadlines, supporting documents, and contact information for the M.Ed. concentrations in Educational Psychology can be found on the Department's website.

5.11.1.3.6 M.A. in Educational Psychology (Thesis)

This program offers three concentrations:

1. Learning Sciences
2. Health Professions Education
3. Human Development
and one Major:

1. School/Applied Child Psychology

5.11.1.36.1 Admission Requirements

Learning Sciences Concentration

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology. It is recommended that some prior study of a relevant branch of psychology form part of the undergraduate training.

2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

Health Professions Education Concentration

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology. It is recommended that some prior study of a relevant branch of psychology form part of the undergraduate training.

2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

The Health Professions Education program has been conceived and is offered in collaboration with the McGill Centre for Medical Education and affiliated faculty. Student selection is done jointly as is graduate supervision.

Human Development Concentration

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology. It is recommended that some prior study of a relevant branch of psychology form part of the undergraduate training.

2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

School/Applied Child Psychology Major

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology, consisting of 42 credits of core courses in specific domains (see list in the Pre-Admission Academic Checklist).

2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

5.11.1.36.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

Learning Sciences Concentration

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Learning Sciences concentration can be found on the Department’s website.

Health Professions Education Concentration

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Health Professions concentration can be found on the Department’s website.

Human Development Concentration

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Human Development concentration can be found on the Department’s website.

School/Applied Child Psychology Major

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: School/Applied Child Psychology Major can be found on the Department’s website.

5.11.1.36.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

Learning Sciences Concentration

- Curriculum Vitae
- Three reference letters
- Statement of Research Interest and Preferred Supervisor(s)
- Personal Statement

Health Professions Education Concentration

- Curriculum Vitae
- Three reference letters
- Statement of Research Interest and Preferred Supervisor(s)
- Personal Statement
Human Development Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Statement of Research Interest and Preferred Supervisor(s)

School/Applied Child Psychology Major

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Statement of Research Interest and Preferred Supervisor(s)
- **GRE** – General and Psychology subject scores
- Pre-Admission Academic Checklist

5.11.1.3.7 Ph.D. in Educational Psychology

5.11.1.3.7.1 Admission Requirements

All doctoral students must have a research supervisor upon entry to the program. Interested candidates should consult the Department's website for a faculty list. All applicants must have a minimum CGPA of 3.0 out of 4.0 or higher or a GPA of 3.2 out of 4.0 in the last two years of full-time studies. **Please note:** it is essential to clearly identify your desired concentration of study on your application. The two concentrations offered are:

1. Human Development
2. Learning Sciences

The specific requirements to be admitted at the Ph.D. 2 level are as follows:

Applicants should hold an M.A. in Educational Psychology from McGill or a recognized equivalent degree from a program which requires a thesis, reflecting high overall standing, study within the area of proposed doctoral specialization, and evidence of research competence.

5.11.1.3.7.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

Information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in Educational Psychology: Human Development concentration can be found on the Department's website.

Information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in Educational Psychology: Learning Sciences concentration can be found on the Department's website.

5.11.1.3.7.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

**Human Development Concentration**

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Letter from proposed supervisor indicating their agreement to act as the Thesis Supervisor

**Learning Sciences Concentration**

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Letter from proposed supervisor indicating their agreement to act as the Thesis Supervisor

5.11.1.3.8 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Educational & Counselling Psychology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.
Counselling Psychology (M.A. or Ph.D.)

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
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</tbody>
</table>

Educational Psychology and School/Applied Child Psychology programs (M.A., M.Ed., or Ph.D.)

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

5.11.1.4 Educational and Counselling Psychology Faculty

Chair
Jeffrey L. Derevensky

Program Directors
Steven R. Shaw – Counselling Psychology
Tara Flanagan – Human Development, M.Ed. Concentrations in Educational Psychology
Alenoush Saroyan – Health Professions Education, Learning Sciences
Armando Bertone – School/Applied Child Psychology
Ada Sinacore – Graduate Certificate in Counselling Applied to Teaching

Emeritus Professors
Mark W. Aulls; B.S.(Ball St.), M.Ed.(Ind.), Ed.D.(Georgia)
Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)
Janet G. Donald; B.A., M.A.(W. Ont.), Ph.D.(Tor.)
Marilyn Fitzpatrick; B.A.(Tor.), M.Ed., Ph.D.(McG.)
Carl H. Frederiksen; B.A.(Harv.), M.A., Ph.D.(Ill.)
Eigil Pedersen; B.A.(Mcm.), M.A.(Cdia), Ph.D.(Tor.)
Bruce M. Shore; B.Sc., M.A.(McG.), Ph.D.(Calg.)
Howard A. Stutt; B.A.(Qu.), B.Ed., M.Ed.(Montr.), F.C.C.T.
Cynthia B. Weston; B.A.(G’town), M.L.S.(SUNY), D.Ed.(Wash.)
### Professors
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. (Loy. U. Chic.), Ph.D. (McG.)

### Associate Professors
Armando Bertone; B.A., M.A. (C'dia), M.Ps., Ph.D. (Montr.) (*William Dawson Scholar*) (*FRSQ Chercheur Boursier, Junior 2*)
Alain Breuleux; B.Sc., M.Sc., Ph.D. (Montr.)
Martin Drapeau; B.A. (Montr.), B.A.Ps. (UQTR), M.P (Laval), Ph.D. (Montr.)
Tara Flanagan; B.A. (Winn.), M.A., Ph.D. (McG.)
Nathan Hall; B.A., M.A., Ph.D. (Manit.)
Michael L. Hoover; B.S. (Tulane), M.A., M.Phil., Ph.D. (Col.)
Annett Körner; M.A., Ph.D. (Leipzig)
Krista Muis; B.A. (Wat.), M.A. (Vic., BC), Ph.D. (S. Fraser) (*Canada Research Chair, Tier 2*)
Steven R. Shaw; B.A., 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.)
Ronald Stringer; B.Sc., M.A., Ph.D. (Tor.) (*on leave*)
Victoria Talwar; M.A. (St. And.), M.A., Ph.D. (Qu.) (*Canada Research Chair, Tier 2*)

### Assistant Professors
Adam Dubé; M.A., Ph.D. (Regina)
Bassam El-Khoury; B.Sc. (Lebanese), B.A. (C’dia), Ph.D. (Montr.)
Chiaki Konishi; B.Ed. (Chiba), M.Ed. (Mass.-Amh.), M.A., Ph.D. (Br. Col.)
Tina Montreuil; M.Ed. (McG.), Ph.D. (UQAM)
Marie-Hélène Pennestri; B.Sc., M.A., Ph.D. (Montr.)
Eve-Marie Quintin; B.Sc. (McG.), Ph.D. (UQAM)
Jessica Ruglis; B.S. (Albany), M.A.T. (Union Coll.), M.P.H. (Hunter), Ph.D. (CUNY)
Caroline E. Temcheff; B.Sc. (McG.), M.A., Ph.D. (C’dia)
Dennis Wendt; B.Sc. (Brigham Young), M.Sc., Ph.D. (Mich.)

### Faculty Lecturers
Karen Cohen-Gazith; B.A. (Dal.), M.A., Ph.D. (McG.)
Scott Conrod; B.Sc. (Sir G. Wms.), M.Ed. (McG.)
Jack De Stefano; B.A. (Loyola), M.Ed., Ed.D. (McG.)

### Associate Members
Robin Cohen; B.Sc., M.Sc., Ph.D. (McG.) (*Oncology*)
Reut Gruber; B.A., M.A., Ph.D. (Tel Aviv) (*Psychiatry*)
Lawrence Kirmayer; B.Sc., M.D. (McG.) (*Psychiatry*)
Heather Beth MacIntosh; B.A., Ph.D. (Ott.) (*School of Social Work*)
### Associate Members

Brett D. Thombs; B.A.(Nwestern), M.A.(Ariz.), M.A., Ph.D.(Fordham Univ.) (Psychiatry)

Jeffrey G. Wiseman; B.Sc., M.A., M.D.,C.M.(McG.) (Medicine, Royal Victoria Hospital)

### Associate Professors (Non-Tenure Track)

Marcia A.B. Delcourt; B.Sc.(Bloomsburg State Univ.), M.A., Ph.D.(Conn.)

Laura Winer; B.A., M.A., Ph.D.(C'dia) (Teaching and Learning Services)

### Adjunct Professors

Dermot Bowler, Thomas Goetz, Judith Gradinger, Calvin Kalman, Jasvinder Magon, Marina Milyavskaya, Katherine Moxness, Nathan G. Smith, Lisa Spanierman, Anastassios Stalikas

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### 5.11.1.5 Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Professional/Internship (60 credits)

For more information, see [www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology](http://www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology).

#### Required Internship (24 credits)

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<tr>
<th>Course</th>
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<th>Title</th>
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<tbody>
<tr>
<td>EDPC 677</td>
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<td>Internship Research Seminar: Quantitative Studies</td>
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<tr>
<td>EDPC 678</td>
<td>3</td>
<td>Internship Research Seminar: Qualitative Studies</td>
</tr>
<tr>
<td>EDPC 679D1</td>
<td>3</td>
<td>Internship: General 1</td>
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<tr>
<td>EDPC 679D2</td>
<td>3</td>
<td>Internship: General 1</td>
</tr>
<tr>
<td>EDPC 683</td>
<td>3</td>
<td>Practicum in Psychological Testing: Personality Assessment</td>
</tr>
<tr>
<td>EDPC 684</td>
<td>3</td>
<td>Practicum in Psychological Testing: Cognitive Assessment</td>
</tr>
<tr>
<td>EDPC 685D1</td>
<td>3</td>
<td>Internship: Vocational and Rehabilitation Counselling</td>
</tr>
<tr>
<td>EDPC 685D2</td>
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#### Required Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
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<tbody>
<tr>
<td>EDPC 606</td>
<td>3</td>
<td>Theories of Intervention 1</td>
</tr>
<tr>
<td>EDPC 607</td>
<td>3</td>
<td>Theories of Counselling 2</td>
</tr>
<tr>
<td>EDPC 608</td>
<td>3</td>
<td>Group Counselling: Theory</td>
</tr>
<tr>
<td>EDPC 609</td>
<td>3</td>
<td>Psychological Testing 1</td>
</tr>
<tr>
<td>EDPC 615</td>
<td>3</td>
<td>Assessment and Diagnosis 1</td>
</tr>
<tr>
<td>EDPC 618</td>
<td>3</td>
<td>Professional Ethics and the Law</td>
</tr>
<tr>
<td>EDPC 624</td>
<td>3</td>
<td>Group Counselling: Practice</td>
</tr>
<tr>
<td>EDPC 662</td>
<td>3</td>
<td>Career Psychology</td>
</tr>
<tr>
<td>EDPC 665D1</td>
<td>3</td>
<td>Practicum</td>
</tr>
<tr>
<td>EDPC 665D2</td>
<td>3</td>
<td>Practicum</td>
</tr>
<tr>
<td>EDPE 622</td>
<td>3</td>
<td>Multiculturalism and Gender</td>
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</tbody>
</table>

#### Elective Courses (3 credits)

The following courses may be offered periodically and taken to complete or exceed the academic requirements. Electives may also be chosen from other courses offered by the Department or other departments of the University. Choice of electives not listed below requires the approval of the Program Director.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPC 616</td>
<td>3</td>
<td>Individual Reading Course</td>
</tr>
<tr>
<td>EDPC 670</td>
<td>3</td>
<td>Current Trends in Counselling</td>
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</tbody>
</table>
5.11.1.6 Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Project (60 credits)

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (57 credits)

<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>EDPC 606</td>
<td>3</td>
<td>Theories of Intervention 1</td>
</tr>
<tr>
<td>EDPC 609</td>
<td>3</td>
<td>Psychological Testing 1</td>
</tr>
<tr>
<td>EDPC 615</td>
<td>3</td>
<td>Assessment and Diagnosis 1</td>
</tr>
<tr>
<td>EDPC 619</td>
<td>3</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>EDPC 620</td>
<td>3</td>
<td>Research Project 2</td>
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<td>EDPC 621</td>
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<td>Research Project 3</td>
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<td>EDPC 625</td>
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<td>EDPC 626</td>
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<td>Clinic Practicum 2</td>
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<td>EDPC 628</td>
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<td>Research Project 4</td>
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<td>EDPC 629</td>
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<td>Research Project 5</td>
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<td>EDPC 630</td>
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<td>Research Project 6</td>
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<tr>
<td>EDPC 662</td>
<td>3</td>
<td>Career Psychology</td>
</tr>
<tr>
<td>EDPC 683</td>
<td>3</td>
<td>Practicum in Psychological Testing: Personality Assessment</td>
</tr>
<tr>
<td>EDPC 684</td>
<td>3</td>
<td>Practicum in Psychological Testing: Cognitive Assessment</td>
</tr>
<tr>
<td>EDPE 622</td>
<td>3</td>
<td>Multiculturalism and Gender</td>
</tr>
<tr>
<td>EDPE 627</td>
<td>3</td>
<td>Ethical and Professional Practice of Psychology</td>
</tr>
<tr>
<td>EDPE 676</td>
<td>3</td>
<td>Intermediate Statistics</td>
</tr>
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</table>

Complementary Courses (3 credits)

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 682</td>
<td>3</td>
<td>Univariate/Multivariate Analysis</td>
</tr>
<tr>
<td>EDPE 687</td>
<td>3</td>
<td>Qualitative Methods in Educational Psychology</td>
</tr>
</tbody>
</table>

5.11.1.7 Doctor of Philosophy (Ph.D.) Counselling Psychology

For more information, www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (30 credits)

<table>
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<tr>
<th>Course Code</th>
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<td>EDPC 701</td>
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<td>Comprehensive Examination</td>
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<tr>
<td>EDPC 702</td>
<td>3</td>
<td>Assessment &amp; Diagnosis 2</td>
</tr>
<tr>
<td>EDPC 714</td>
<td>3</td>
<td>Theory / Models: Family Therapy</td>
</tr>
<tr>
<td>EDPC 720</td>
<td>3</td>
<td>Consultation and Program Evaluation</td>
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<tr>
<td>EDPC 780</td>
<td>6</td>
<td>Supervision</td>
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<tr>
<td>EDPC 782</td>
<td>6</td>
<td>Doctoral Field Experience</td>
</tr>
<tr>
<td>EDPC 786</td>
<td>6</td>
<td>Proposal Preparation and Defense</td>
</tr>
</tbody>
</table>
Required Internship (24 credits)
EDPC 795 (24) Pre-doctoral Internship

Complementary Courses (6 credits)
6 credits from the following:
EDPE 682 (3) Univariate/Multivariate Analysis
EDPE 684 (3) Applied Multivariate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology

Elective Courses (6 credits)
Two courses that must be at the 500, 600, or 700 level. Electives are on topics related to specialized interests and must be approved by the supervisor.

5.11.1.8 Master of Arts (M.A.) School/Applied Child Psychology (Non-Thesis) (60 credits)
For more information please see: www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (60 credits)
EDPE 620 (3) Developmental Psychopathology
EDPE 622 (3) Multiculturalism and Gender
EDPE 627 (3) Ethical and Professional Practice of Psychology
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
EDPI 654 (3) Instruction/Curriculum Adaptation
EDSP 600D1 (1.5) School Psychology Seminar
EDSP 600D2 (1.5) School Psychology Seminar
EDSP 609 (3) Introduction to Cognitive Assessment
EDSP 610 (3) Introduction to Psycho-educational Assessment
EDSP 611 (3) History, Theory and Best Practices in School Psychology
EDSP 619 (3) Child and Adolescent Therapy
EDSP 650D1 (1.5) Professional Practice in School Setting
EDSP 650D2 (1.5) Professional Practice in School Setting
EDSP 682D1 (3) Psycho-Educational Assessment & Intervention Practicum
EDSP 682D2 (3) Psycho-Educational Assessment & Intervention Practicum
EDSP 691 (3) Research Project 1
EDSP 692 (3) Research Project 2
EDSP 693 (3) Research Project 3
EDSP 694 (3) Research Project 4
EDSP 695 (3) Research Project 5
EDSP 696 (3) Research Project 6

5.11.1.9 Doctor of Philosophy (Ph.D.) School/Applied Child Psychology
Note: Admission to this program is currently suspended
The School/Applied Child Psychology program at McGill University prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Course work, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill’s scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill’s School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill become leaders in research and higher education, school-based practice, hospital-based positions, independent practice, mental health centres, and policy making roles.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Comprehensive Exam**
EDSP 701 (0) Comprehensive Examination

**Required Courses (60 credits)**
24 credits
EDPC 714 (3) Theory / Models: Family Therapy
EDPE 712 (3) Neurological Bases of Behaviour Across Lifespan
EDSP 702 (3) Selected Topics in School/Applied Child Psychology 2
EDSP 705D1 (3) Practicum: School Psychology
EDSP 705D2 (3) Practicum: School Psychology
EDSP 710 (3) Consultation in School Psychology
EDSP 715D1 (3) Theory and Practice of Supervision
EDSP 715D2 (3) Theory and Practice of Supervision

**Field Placement**
12 credits
EDSP 721D1 (3) Field Placement 1: School Psychology
EDSP 721D2 (3) Field Placement 1: School Psychology
EDSP 722D1 (3) Field Placement 2: School Psychology
EDSP 722D2 (3) Field Placement 2: School Psychology

**Internship (24 credits)**
24 credits
EDSP 725D1 (12) Internship: School Psychology
EDSP 725D2 (12) Internship: School Psychology

**Complementary Courses (3 credits)**
3 credits from the following:
EDPE 684 (3) Applied Multivariate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology
5.11.1.10 Graduate Diploma (Gr. Dip.) School/Applied Child Psychology (Post-Ph.D.)

Note: Admission to this program is currently suspended

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses and Clinic-based Practica (30 credits)

The program will be individually tailored to each accepted student in respect of previous studies and experience. Students will not be asked to repeat a course on a topic in which they can demonstrate a high level of competence. The following are expected to be most often required of students.

EDPC 609 (3) Psychological Testing 1
EDPC 610 (3) Psychological Testing 2
EDPC 618 (3) Professional Ethics and the Law
EDPC 682D1 (3) Practicum: Psychological Testing
EDPC 682D2 (3) Practicum: Psychological Testing
EDPC 714 (3) Theory / Models: Family Therapy
EDPE 619 (3) Child and Adolescent Therapy
EDPE 625 (3) Practicum 1: School Psychology
EDPE 626 (3) Practicum 2: School Psychology
EDPE 710 (3) Consultation in School Psychology

Complementary Courses - Field Placements

Two days per week, one semester each; students select two of these three field experiences; placement in a school covering all grades may be applied to either EDPE 721 or EDPE 722:

EDPE 721 (6) School Psychology: Elementary
EDPE 722 (6) School Psychology: Secondary
EDPE 723 (6) School Psychology: Community

Internship

One year full time or two years half-time

EDPE 725 (12) Internship 1 - School Psychology
EDPE 726 (12) Internship 2 - School Psychology

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this Post-doctoral Graduate Diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the American Psychological Association (APA). Graduates of a respecialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the Post-doctoral Graduate Diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

5.11.1.11 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Family Life Education (48 credits)

Note: Admission to this program is currently suspended

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (9 credits)
## Complementary Courses (27 credits)

27 credits from the following:

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<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
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<td>Group Processes and Individuals</td>
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<td>3</td>
<td>Intersectional Relationships and Sexualities</td>
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<td>Practicum: Interviewing Skills</td>
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<td>EDPC 507</td>
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<td>Practicum: Group Leadership Skills</td>
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<td>EDPC 508</td>
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<td>Seminar in Special Topics</td>
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<td>Individual Reading Course</td>
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<td>EDPE 560</td>
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<td>EDPE 564</td>
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<tr>
<td>EDPE 698</td>
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<td>Special Activity 2</td>
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## Elective Courses (12 credits)

500-, 600-, or 700-level courses to be taken from courses offered by the Department or with approval of the Program Director, from other departments.

## 5.11.12 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology (48 credits)

The M.Ed. in Educational Psychology (Non-Thesis) - General Educational Psychology provides students the flexibility to design a program that satisfies their professional and academic needs. The program provides a foundation in core areas of educational psychology (inclusive education, learning sciences) through courses on learning theories, motivation, human development, diverse classroom populations, complemented by research skill development. The role of schools and communities is also examined. Graduates will have the skills to understand and contribute to the growth and enhancement of knowledge and practice in educational psychology and develop tools for implementing new teaching models in the classroom. The program also provides opportunities to study one area in greater depth or to add diverse course experiences.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counsellingpsychology.

## Required Courses (24 credits)

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<tr>
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<tr>
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<td>Theories of Human Development</td>
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<tr>
<td>EDPE 535</td>
<td>3</td>
<td>Instructional Design</td>
</tr>
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<td>EDPE 555</td>
<td>3</td>
<td>Theoretical Foundations of Learning Sciences</td>
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<tr>
<td>EDPE 575</td>
<td>3</td>
<td>Statistics for Practitioners</td>
</tr>
<tr>
<td>EDPE 602</td>
<td>3</td>
<td>Uses of Research Findings in Education</td>
</tr>
<tr>
<td>EDPE 635</td>
<td>3</td>
<td>Theories of Learning and Instruction</td>
</tr>
<tr>
<td>EDPE 670</td>
<td>3</td>
<td>Educational Assessment and Evaluation</td>
</tr>
<tr>
<td>EDPI 642</td>
<td>3</td>
<td>Inclusion: Past, Present &amp; Future</td>
</tr>
</tbody>
</table>
Complementary Courses (12 credits)

EDPC 501 (3) Helping Relationships
EDPC 504 (3) Practicum: Interviewing Skills
EDPC 505 (3) Crisis Intervention Processes
EDPC 542 (3) Counselling Role of the Teacher
EDPE 515 (3) Gender Identity Development
EDPE 636 (3) Motivation and Instruction
EDPE 640 (3) Emerging Technologies for Educational Change
EDPE 656 (3) Applied Theory/Methods in the Learning Sciences
EDPE 663 (3) Learning Environments
EDPE 664 (3) Expertise, Reasoning and Problem Solving
EDPE 666 (3) Foundations of Learning Science
EDPE 699D1 (6) Special Activity
EDPE 699D2 (6) Special Activity
EDPH 689 (3) Teaching and Learning in Higher Education
EDPI 526 (3) Talented and Gifted Students
EDPI 527 (3) Creativity and its Cultivation
EDPI 539 (3) Field Work 1
EDPI 540 (3) Field Work 2
EDPI 543 (3) Family, School and Community
EDPI 645 (3) Assessment For Effective Intervention
EDPE 654 (3) Instruction/Curriculum Adaptation
EDPI 656D1 (3) Clinic Practicum in Special Education
EDPI 656D2 (3) Clinic Practicum in Special Education
EDPI 665 (3) Teaching of Reading
EDPI 667 (3) Promoting Social and Emotional Well-Being

Elective Courses (12 credits)

500-, 600-, or 700-level courses to be taken from courses offered by the Department or with approval of the Program Director, from other departments.

5.11.1.13 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology: Project (48 credits)

The M.Ed. in Educational Psychology (Non-Thesis) - General Educational Psychology: Project provides students the flexibility to design a program that satisfies their professional and academic needs. The program provides a foundation in core areas of educational psychology (inclusive education, learning sciences) through courses on learning theories, motivation, human development and diverse classroom populations, complemented by research skill development. The role of schools and communities is also examined. Graduates will have the skills to understand and contribute to the growth and enhancement of knowledge and practice in educational psychology and develop tools for implementing new teaching models in the classroom. The program also provides opportunities to study one area in greater depth or to add diverse course experiences, and complete a Research Project.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (36 credits)

EDPE 502 (3) Theories of Human Development
EDPE 535 (3) Instructional Design
EDPE 555 (3) Theoretical Foundations of Learning Sciences
EDPE 575 (3) Statistics for Practitioners
EDPE 602 (3) Uses of Research Findings in Education
Theories of Learning and Instruction (3) EDPE 635
Educational Assessment and Evaluation (3) EDPE 670
Inclusion: Past, Present & Future (3) EDPI 642
Research Project 1 (3) EDPI 691
Research Project 2 (3) EDPI 692
Research Project 3 (3) EDPI 693
Research Project 4 (3) EDPI 694

Complementary Courses (12 credits)
EDPC 501 (3) Helping Relationships
EDPC 504 (3) Practicum: Interviewing Skills
EDPC 505 (3) Crisis Intervention Processes
EDPC 542 (3) Counselling Role of the Teacher
EDPE 515 (3) Gender Identity Development
EDPE 636 (3) Motivation and Instruction
EDPE 640 (3) Emerging Technologies for Educational Change
EDPE 656 (3) Applied Theory/Methods in the Learning Sciences
EDPE 663 (3) Learning Environments
EDPE 664 (3) Expertise, Reasoning and Problem Solving
EDPE 666 (3) Foundations of Learning Science
EDPE 699D1 (6) Special Activity
EDPE 699D2 (6) Special Activity
EDPH 689 (3) Teaching and Learning in Higher Education
EDPI 526 (3) Talented and Gifted Students
EDPI 527 (3) Creativity and its Cultivation
EDPI 539 (3) Field Work 1
EDPI 540 (3) Field Work 2
EDPI 543 (3) Family, School and Community
EDPI 645 (3) Assessment For Effective Intervention
EDPI 654 (3) Instruction/Curriculum Adaptation
EDPI 656D1 (3) Clinic Practicum in Special Education
EDPI 656D2 (3) Clinic Practicum in Special Education
EDPI 665 (3) Teaching of Reading
EDPI 667 (3) Promoting Social and Emotional Well-Being

5.11.1.14 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education (48 credits)
The aim of the MEd in Educational Psychology (Non-Thesis) - Inclusive Education is to educate students on the major theories and practices of inclusive education. The program’s focus is on diversity in development behavior and attainment, and eco-systemic and cultural models of teaching, learning, and assessment. Similar approaches are taken to understanding disability. Graduates will be able to implement effective teaching programs for students across all spectrums of development. Students will develop a strong foundation in the core content and theories of development, disability, inclusion and methods. The role of schools and communities is also examined. Students will be trained in application and practice through behaviour, literacy assessment and intervention, and differentiated teaching planning objectives.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (30 credits)
EDPE 502 (3) Theories of Human Development
EDPE 575 (3) Statistics for Practitioners
EDPE 602 (3) Uses of Research Findings in Education
EDPE 635 (3) Theories of Learning and Instruction
EDPI 543 (3) Family, School and Community
EDPI 642 (3) Inclusion: Past, Present & Future
EDPI 645 (3) Assessment For Effective Intervention
EDPI 654 (3) Instruction/Curriculum Adaptation
EDPI 665 (3) Teaching of Reading
EDPI 667 (3) Promoting Social and Emotional Well-Being

Complementary Courses (18 credits)
18 credits from the following:
EDPC 501 (3) Helping Relationships
EDPC 504 (3) Practicum: Interviewing Skills
EDPE 515 (3) Gender Identity Development
EDPE 595 (3) Seminar in Special Topics
EDPE 640 (3) Emerging Technologies for Educational Change
EDPE 676 (3) Intermediate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology
EDPE 699D1 (6) Special Activity
EDPE 699D2 (6) Special Activity
EDPI 526 (3) Talented and Gifted Students
EDPI 539 (3) Field Work 1
EDPI 540 (3) Field Work 2
EDPI 656D1 (3) Clinic Practicum in Special Education
EDPI 656D2 (3) Clinic Practicum in Special Education

5.11.1.15 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education: Project (48 credits)
The aim of the M.Ed. in Educational Psychology (Non-Thesis) - Inclusive Education is to educate students on the major theories and practices of inclusive education. The program’s focus is on diversity in development behavior and attainment, and eco-systemic and cultural models of teaching, learning, and assessment. Similar approaches are taken to understand disability. Graduates will be able to implement effective teaching programs for students across all spectrums of development. Students will develop a strong foundation in the core content and theories of development, disability, inclusion, and methods. The role of schools and communities is also examined. Students will be trained in application and practice through behaviour, literacy assessment and intervention, differentiated teaching planning objectives, and the completion of a Research Project.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (42 credits)
EDPE 502 (3) Theories of Human Development
EDPE 575 (3) Statistics for Practitioners
EDPE 602 (3) Uses of Research Findings in Education
EDPE 635 (3) Theories of Learning and Instruction
EDPI 543 (3) Family, School and Community
EDPI 642 (3) Inclusion: Past, Present & Future
EDPI 645 (3) Assessment For Effective Intervention
EDPI 654 (3) Instruction/Curriculum Adaptation
EDPI 665 (3) Teaching of Reading
EDPI 667 (3) Promoting Social and Emotional Well-Being
EDPI 691 (3) Research Project 1
EDPI 692 (3) Research Project 2
EDPI 693 (3) Research Project 3
EDPI 694 (3) Research Project 4

Complementary Courses (6 credits)
6 credits from the following:

EDPC 501 (3) Helping Relationships
EDPC 504 (3) Practicum: Interviewing Skills
EDPE 515 (3) Gender Identity Development
EDPE 595 (3) Seminar in Special Topics
EDPE 640 (3) Emerging Technologies for Educational Change
EDPE 676 (3) Intermediate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology
EDPI 526 (3) Talented and Gifted Students
EDPI 539 (3) Field Work 1
EDPI 540 (3) Field Work 2

5.11.1.16 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Learning Sciences (48 credits)
The aim of the MEd in Educational Psychology (Non-Thesis) - Learning Sciences is to acquaint students with current theories and research on Teaching and Learning and their application to real-world and designed environments, while exploring other topics of interest in educational psychology. Students will develop a foundation in the learning sciences, including cognitive, social and affective processes underlying learning, instructional design and effective uses of technology, program/curriculum evaluation and development. Graduates will be able to implement these skills in a teaching, administrative, or consultative role. The program also provides opportunities to study one area in greater depth or to add diverse course experiences.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (24 credits)

EDPE 535 (3) Instructional Design
EDPE 555 (3) Theoretical Foundations of Learning Sciences
EDPE 575 (3) Statistics for Practitioners
EDPE 602 (3) Uses of Research Findings in Education
EDPE 635 (3) Theories of Learning and Instruction
EDPE 636 (3) Motivation and Instruction
EDPE 640 (3) Emerging Technologies for Educational Change
EDPE 670 (3) Educational Assessment and Evaluation

Complementary Courses (12 credits)
12 credits from the following:

EDPE 502 (3) Theories of Human Development
EDPE 656 (3) Applied Theory/Methods in the Learning Sciences
EDPE 663 (3) Learning Environments
EDPE 664 (3) Expertise, Reasoning and Problem Solving
EDPE 666 (3) Foundations of Learning Science
EDPE 668 (3) Advanced Seminar in Learning Sciences
EDPE 699D1 (6) Special Activity
EDPE 699D2 (6) Special Activity
EDPH 689 (3) Teaching and Learning in Higher Education
EDPI 526 (3) Talented and Gifted Students
EDPI 527 (3) Creativity and its Cultivation
EDPI 539 (3) Field Work 1
EDPI 540 (3) Field Work 2
EDPI 654 (3) Instruction/Curriculum Adaptation

**Elective Courses (12 credits)**

500-, 600-, or 700-level courses to be taken from courses offered by the Department or with approval of the Program Director, from other departments.

**5.11.1.17 Master of Arts (M.A.) Educational Psychology (Thesis): Health Professions Education (48 credits)**

For more information, see [www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology](http://www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology).

**Thesis Courses (24 credits)**

EDPE 604 (3) Thesis 1
EDPE 607 (3) Thesis 2
EDPE 693 (3) Thesis 3
EDPE 694 (3) Thesis 4
EDPE 695 (6) Thesis 5
EDPE 696 (6) Thesis 6

**Prerequisite Course (or equivalent) (3 credits)**

EDPE 575 (3) Statistics for Practitioners

**Required Courses (12 credits)**

EDPE 605 (3) Research Methods
EDPE 637 (3) Issues in Health Professions Education
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis

**Complementary Courses (12 credits)**

3 credits from the following:

EDPE 639 (3) Practicum in Health Professions Education
EDPH 689 (3) Teaching and Learning in Higher Education

9 credits from the following:

EDPE 535 (3) Instructional Design
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<tbody>
<tr>
<td>EDPE 555</td>
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<td>EDPE 635</td>
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<td>Theories of Learning and Instruction</td>
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<td>Applied Theory/Methods in the Learning Sciences</td>
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<tr>
<td>EDPE 687</td>
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or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

### 5.11.18 Master of Arts (M.A.) Educational Psychology (Thesis): Human Development (45 credits)

For more information, see [www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology](http://www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology).

#### Thesis Courses (24 credits)

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#### Required Courses (15 credits)

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<td>EDPE 632D2</td>
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<td>EDPE 672</td>
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<td>Human Development Seminar 1</td>
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<td>EDPE 673</td>
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<td>Human Development Seminar 2</td>
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<tr>
<td>EDPE 676</td>
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<td>Intermediate Statistics</td>
</tr>
<tr>
<td>EDPE 682</td>
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<td>Univariate/Multivariate Analysis</td>
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#### Complementary Courses (6 credits)

3-6 credits from the following:

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<td>EDPE 616</td>
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0-3 credits from the following:

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</tr>
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<td>EDPI 665</td>
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<td>Teaching of Reading</td>
</tr>
</tbody>
</table>

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.
5.11.1.19 Master of Arts (M.A.) Educational Psychology (Thesis): Learning Sciences (45 credits)

The M.A. in Educational Psychology: Learning Sciences prepares graduates for a career in educational research and its application to practice. Content courses explore contemporary psychological and educational theories and empirical studies in (a) cognition, learning, and instruction; (b) self-regulation, motivation, and emotion; (c) technology-rich learning environments; and (d) social, cultural, and historical foundations of learning. Methodological courses focus on research design and quantitative and qualitative data analytic techniques. Program outcomes include knowledge of relevant theories, related empirical research methodologies and results, and the application of gained knowledge and skills to design and conduct research related to educational interventions, processes, and outcome. The program develops complementary and professional competencies in educational research beyond coursework- through mentoring, research supervision and apprenticeship in research labs.

For additional information see: www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

**Thesis Courses (24 credits)**

- EDPE 604 (3) Thesis 1
- EDPE 607 (3) Thesis 2
- EDPE 693 (3) Thesis 3
- EDPE 694 (3) Thesis 4
- EDPE 695 (6) Thesis 5
- EDPE 696 (6) Thesis 6

**Required Courses (12 credits)**

- EDPE 605 (3) Research Methods
- EDPE 666 (3) Foundations of Learning Science
- EDPE 676 (3) Intermediate Statistics
- EDPE 682 (3) Univariate/Multivariate Analysis

**Complementary Courses (9 credits)**

- EDPE 636 (3) Motivation and Instruction
- EDPE 640 (3) Emerging Technologies for Educational Change
- EDPE 656 (3) Applied Theory/Methods in the Learning Sciences
- EDPE 663 (3) Learning Environments
- EDPE 664 (3) Expertise, Reasoning and Problem Solving
- EDPE 668 (3) Advanced Seminar in Learning Sciences
- EDPE 670 (3) Educational Assessment and Evaluation
- EDPE 687 (3) Qualitative Methods in Educational Psychology

or other 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

5.11.1.20 Master of Arts (M.A.) School/Applied Child Psychology (Thesis) (78 credits)

***This program is currently closed for admissions.***

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

**Thesis Courses (24 credits)**

- EDPE 604 (3) Thesis 1
- EDPE 607 (3) Thesis 2
- EDPE 693 (3) Thesis 3
- EDPE 694 (3) Thesis 4
- EDPE 695 (6) Thesis 5
Prerequisite Course (or equivalent) (3 credits)
EDPE 575 (3) Statistics for Practitioners

Required Courses (51 credits)
EDPC 609 (3) Psychological Testing 1
EDPC 610 (3) Psychological Testing 2
EDPC 682D1 (3) Practicum: Psychological Testing
EDPC 682D2 (3) Practicum: Psychological Testing
EDPE 600 (3) Current Topics: Educational Psychology
EDPE 605 (3) Research Methods
EDPE 609 (3) Selected Topics in Educational Psychology
EDPE 611 (3) School Psychology Seminar
EDPE 616 (3) Cognitive Development
EDPE 619 (3) Child and Adolescent Therapy
EDPE 620 (3) Developmental Psychopathology
EDPE 622 (3) Multiculturalism and Gender
EDPE 623 (3) Social-Emotional Development
EDPE 627 (3) Ethical and Professional Practice of Psychology
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
EDPI 654 (3) Instruction/Curriculum Adaptation

Complementary Courses (3 credits)
3 credits from:
EDPE 684 (3) Applied Multivariate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology

5.11.1.21 Doctor of Philosophy (Ph.D.) Educational Psychology: Human Development

Required Courses (15 credits)
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

EDPE 632D1 (1.5) Research Seminar
EDPE 632D2 (1.5) Research Seminar
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
EDPE 683 (3) Human Development Seminar 3
EDPE 686 (3) Human Development Seminar 4
EDPE 708 (0) Comprehensive Examination
Complementary Courses (9 credits)

3-6 credits from:

EDPE 616 (3) Cognitive Development
EDPE 620 (3) Developmental Psychopathology
EDPE 623 (3) Social-Emotional Development

0-3 credits from the following:

EDPE 633 (3) Research Internship 1
EDPE 634 (3) Research Internship 2
EDPH 689 (3) Teaching and Learning in Higher Education
EDPI 642 (3) Inclusion: Past, Present & Future
EDPI 665 (3) Teaching of Reading
EDPI 756 (3) Internship/Special Needs Education

3 credits from the following:

EDPE 684 (3) Applied Multivariate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology

Or other 600- and 700-level courses offered by the department and with the approval of a Supervisor and Program Director.

5.11.1.22 Doctor of Philosophy (Ph.D.) Educational Psychology: Learning Sciences

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (27 credits)

EDPE 605 (3) Research Methods
EDPE 666 (3) Foundations of Learning Science
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
EDPE 704 (3) Advanced Research Seminar 1
EDPE 705 (3) Advanced Research Seminar 2
EDPE 706 (3) Advanced Research Seminar 3
EDPE 707 (3) Advanced Research Seminar 4
EDPE 708 (0) Comprehensive Examination
EDPH 689 (3) Teaching and Learning in Higher Education

Complementary Courses (6 credits)

3 credits from the following:

EDPE 636 (3) Motivation and Instruction
EDPE 637 (3) Issues in Health Professions Education
EDPE 656 (3) Applied Theory/Methods in the Learning Sciences
3 credits from the following:

EDPE 684 (3) Applied Multivariate Statistics
EDPE 687 (3) Qualitative Methods in Educational Psychology

5.11.2 Integrated Studies in Education

5.11.2.1 Location

Department of Integrated Studies in Education
Education Building, Room 244
3700 McTavish Street
Montreal QC H3A 1Y2
Canada
Website: www.mcgill.ca/dise

Graduate Programs (Graduate Certificate, M.A., MATL, and Ph.D.):
Education Building, Room 244
Telephone: 514-398-4527 (Ph.D./M.A.: ext. 09133; MATL/Graduate Certificates: ext. 094476)
Fax: 514-398-4529

The administrative office is open Monday to Friday from 9:30 a.m. to 4:00 p.m.

5.11.2.2 About Integrated Studies in Education

The Department offers graduate students the opportunity to enhance their knowledge related to specific areas of inquiry in the field of education through our M.A. degrees (thesis or non-thesis options), including our MATL leading to teacher certification, Ph.D. in Educational Studies, and graduate certificates. The Department offers the following programs:

Five Graduate Certificates (15 credits):
- Graduate Certificate in Educational Leadership 1
- Graduate Certificate in Educational Leadership 2
- Graduate Certificate in International Leadership in Educational and Administrative Development
- Graduate Certificate in Teaching English as a Second Language
- Certificat d études supérieures en pédagogie de l immersion française

Three M.A. Thesis and Non-Thesis degree programs (45 credits) in the following areas:
- Education and Society
- Educational Leadership
- Second Language Education

The Department offers an M.A. in Teaching and Learning (MATL) (60 credits) in the following areas:
- Social Sciences
- English Language Arts
- Science and Technology
- Mathematics
- English or French Second Language

Note: The French Second Language program is currently not offered.

The Department also offers a Ph.D. in Educational Studies.
Master of Arts in Education and Society

The M.A. in Education and Society consists of a thesis or non-thesis program. The program focuses on two main fields of study—Culture and Values in Education and Teaching, Learning, and Curriculum—reflecting distinct but overlapping areas of educational inquiry. Study in Culture and Values in Education may focus on critical theory, philosophy, art and aesthetics, race/class/gender issues in education, or international and comparative education. The Teaching, Learning, and Curriculum focus emphasizes current perspectives on pedagogy and curriculum, teacher education, in-and-out-of-school learning, practitioner research, and classroom practice. The program brings to bear diverse applied theoretical perspectives, including philosophy, sociology, cultural studies, policy studies, gender studies, critical pedagogy, and multi-literacies. Graduates of the program go on to doctoral programs or work in education and non-profit settings. Many in-service teachers take this program for professional development.

section 5.11.2.5: Master of Arts (M.A.) Education and Society (Thesis) (45 credits)

The M.A. thesis option is a research-oriented degree in which approximately half of the program consists of thesis research. The balance of the program is course work.

section 5.11.2.6: Master of Arts (M.A.) Education and Society (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the M.A. thesis must be on a topic centrally relating to issues of gender and/or women’s studies.

section 5.11.2.7: Master of Arts (M.A.) Education and Society (Thesis): Mathematics and Science Education (45 credits)

This M.A. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas.

section 5.11.2.8: Master of Arts (M.A.) Education and Society (Non-Thesis) (45 credits)

The M.A. non-thesis option consists mostly of course work, but includes two projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The projects create an opportunity to investigate a particular interest.

section 5.11.2.9: Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work (45 credits)

The M.A. non-thesis option, consisting entirely of course work, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.11.2.10: Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work Math & Science Education (45 credits)

This M.A. concentration emphasizes inquiry in mathematics and science education, including a specific focus on teacher education in the area of math and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and understanding research in both of these areas. The M.A. concentration will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have developed understanding of the value of research in math and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

section 5.11.2.11: Master of Arts (M.A.) Education and Society (Non-Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. The M.A. non-thesis project option consists mainly of course work and includes two projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The projects create an opportunity for students to investigate a particular interest.

section 5.11.2.12: Master of Arts (M.A.) Education and Society (Non-Thesis): Jewish Education (45 credits)

This program is designed to offer a graduate-level point of entry into the teaching profession for students who typically will have completed a B.A. with a minor or major in Jewish Studies. The M.A. will not provide Quebec Ministry of Education teacher certification (in Quebec, certification is at the B.Ed. level), but at the present time, Jewish schools may hire non-certified teachers of Jewish Studies at their discretion.

Students interested in doing a research-focused M.A. in the area of Jewish education should follow one of the other graduate degree offerings within the area of Education and Society.
section 5.11.2.13: Master of Arts (M.A.) Education and Society (Non-Thesis): Project Math & Science Education (45 credits)

This M.A. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas.

Master of Arts in Educational Leadership

The M.A. in Educational Leadership consists of a thesis or non-thesis program. This program is designed to prepare leaders in the field of education, and in other centres of formal or informal learning, who are committed to personal and institutional improvement. The program fosters the ongoing development of reflective practitioners who have a sense of educational action, the capacity to anticipate needs, the ability to exercise professional judgment within the realities of policy frameworks, and the ability to both lead and support institutional and organizational change at all levels. A central theme of the program is the impact of policy on educational practice at local, national, and international levels.

Local and international students are practising and aspiring school principals and leaders from other organizations. Graduates fulfil Quebec Ministry requirements for school leadership and find positions as school leaders, as well as opportunities in other managerial settings.

section 5.11.2.14: Master of Arts (M.A.) Educational Leadership (Thesis) (45 credits)

The M.A. thesis option is a research-oriented degree in which approximately half of the program consists of thesis research. The balance of the program is course work.

section 5.11.2.15: Master of Arts (M.A.) Educational Leadership (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the M.A. thesis must be on a topic centrally relating to issues of gender and/or women’s studies.

section 5.11.2.16: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Course Work (45 credits)

The M.A. non-thesis option, consisting entirely of course work, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.11.2.17: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Project (45 credits)

The M.A. non-thesis option – Project consists of both course work and a project. It is less research-oriented than the thesis option and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.11.2.18: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Gender and Women’s Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the project must be on a topic centrally relating to issues of gender and/or women’s studies.

Master of Arts in Second Language Education

The M.A. in Second Language Education consists of a thesis or non-thesis program. It provides an overview of the state of the art in second-language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning areas (for example, content-based second-language teaching or “immersion”), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second-language teaching practitioners, program administrators, or evaluators.

From a range of pedagogical, linguistic, cognitive, political, and sociocultural perspectives, this program combines theoretical and applied studies of how second and foreign languages are learned and used.

section 5.11.2.19: Master of Arts (M.A.) Second Language Education (Thesis) (45 credits)

The M.A. thesis option is a research-oriented degree in which approximately half of the program consists of thesis research. The balance of the program is course work.
section 5.11.2.20: Master of Arts (M.A.) Second Language Education (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the M.A. thesis must be on a topic centrally relating to issues of gender and/or women’s studies.

section 5.11.2.21: Master of Arts (M.A.) Second Language Education (Non-Thesis) (45 credits)

The M.A. non-thesis option, consisting entirely of course work, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

Master of Arts in Teaching and Learning (MATL)

The M.A. in Teaching and Learning is a professional program leading to Quebec teacher certification for those already holding an undergraduate degree in a Quebec Ministry of Education-identified teachable subject area (Mathematics, Science & Technology, Social Sciences, English, TESL, TFSL). This degree program comprises course work coupled with an internship. Throughout the MATL, emphasis will be on the attainment of the QEP professional competencies, and evidence of mastery of these competencies must be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

section 5.11.2.24: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English or French Second Language (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach English or French Second Language.

Note: The French Second Language program is currently not offered.

section 5.11.2.25: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English Language Arts Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach English Language Arts.

section 5.11.2.26: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Mathematics Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Mathematics.

section 5.11.2.27: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Social Sciences Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Social Sciences.

section 5.11.2.28: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Science and Technology Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Science and Technology.

Doctor of Philosophy in Educational Studies

The Ph.D. in Educational Studies prepares graduates for careers in a variety of education-related fields. The Ph.D.’s core areas are curriculum and literacy, cultural and international studies in education, educational leadership, and second-language education. The program has been designed to ensure flexibility, and students experience both multidisciplinary and discipline-specific research opportunities. The program begins with a set of common courses and proceeds to specialization through advanced course work and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members. Graduates find work as researchers, teachers, consultants, curriculum developers, and administrators in a wide range of settings, including universities, school boards, government agencies, and international NGOs.

section 5.11.2.29: Doctor of Philosophy (Ph.D.) Educational Studies

The Ph.D. in Educational Studies provides an integrative perspective on education by drawing on a range of related disciplines and research orientations. Students develop scholarly and innovative expertise in at least one of three contexts of inquiry and awareness of all three:

a. the broad context of culture and society;
b. the international, national, and local contexts of educational leadership and policy studies; and
c. the more specific contexts of schools and other sites of teaching and learning.
section 5.11.2.29: Doctor of Philosophy (Ph.D.) Educational Studies

Students begin with a set of common core courses and proceed to specialization through advanced course work and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members.

section 5.11.2.30: Doctor of Philosophy (Ph.D.) Educational Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn 6 credits of approved course work focusing on gender and women's studies, and issues in feminist research and methods. In the graduate option in Gender and Women's Studies, the Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

section 5.11.2.31: Doctor of Philosophy (Ph.D.) Educational Studies: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Educational Studies. The Ph.D. thesis must be on a topic relating to language acquisition, approved by the LAP committee.

section 5.11.2.32: Doctor of Philosophy (Ph.D.) Educational Studies: Mathematics and Science Education

This Ph.D. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. Applicants for the Ph.D. concentration in mathematics and science education would be expected to already have a Master's degree that included educational research.

Graduate Certificates

section 5.11.2.33: Graduate Certificate (Gr. Cert.) Educational Leadership 1 (15 credits)

This program addresses the needs of experienced and aspiring school leaders who are taking increased responsibility for the students and communities they serve. The management of schools is increasingly seen as making a major contribution to the learning and personal development of students. The professional development of school leaders, educational reform, and school partnership form the basis for the program. Course selection to be approved by Graduate Certificate Program Director.

section 5.11.2.34: Graduate Certificate (Gr. Cert.) Educational Leadership 2 (15 credits)

This program explores more deeply leadership theory and educational issues and applications in a practicum. Candidates for the Graduate Certificate in Educational Leadership 2 should normally have completed the first certificate. In combination, the two certificates allow school administrators to acquire the 30 graduate credits in the field of educational leadership required by the Quebec Ministry of Education. Course selection to be approved by Graduate Certificate Program Director.

No course taken in Certificate 1 can be repeated in Certificate 2.

section 5.11.2.35: Graduate Certificate (Gr. Cert.) International Leadership in Educational and Administrative Development (15 credits)

This program targets leaders, consultants, senior management and administrators, and policy makers from a range of educational institutions (universities, colleges, private schools) and organizations (hospitals, community, governmental), as well as the corporate sector. The goal is to provide a world-class professional learning experience in educational leadership. The majority of the courses will be delivered online, in combination with a two- to three-week intensive McGill campus component during the summer months. The online component of the certificate will facilitate full-time working schedules and provide greater flexibility in different international time zones. Lectures will be pre-recorded so students may view them to suit their own schedules. Students will have the capacity to communicate, discuss, and ask questions to one another and with the course lecturer through the online communication platform.

Please note that the fee schedule for this program is different from standard graduate programs. For information, please contact program administrator Natalia Bessette.

section 5.11.2.36: Graduate Certificate (Gr. Cert.) Teaching English as a Second Language (15 credits)

This program is designed as professional development for in-service teachers and candidates with a background in education, language studies, linguistics, or a related field, or as preparation for application to our M.A. in Second Language Education. The five courses that comprise the certificate provide a solid background and offer in-depth study in the field of second-language education from a range of perspectives and with a focus on research and applications to teaching. Please note that this certificate does not lead to teacher certification. The Graduate Certificate in TESL is designed to be available to students worldwide. Courses are offered in a combination of online and face-to-face formats, and are sequenced in such a way that students can complete the certificate in one year. The maximum time for completion is three years. The first three courses are offered online, and can be undertaken wherever an Internet connection is available. The final two courses are offered face-to-face in the Summer semester either on-site at McGill or at off-site locations with collaborative partners, if enrolment numbers warrant it.
5.11.2 Integrated Studies in Education Admission Requirements and Application Procedures

5.11.2.1 Admission Requirements

For specific program admission requirements and further information, please refer to www.mcgill.ca/dise/grad.

Graduate Certificates, M.A., and Ph.D. Programs

1. Applicants to the Certificate and M.A. programs must hold a bachelor's degree from a recognized university. A minimum standing equivalent to a CGPA of 3.0/4.0, or 3.2/4.0 for the last two full-time academic years, is required. A concentration of courses related to the area chosen for graduate work is usually required. (See #5 below)

   Applicants to the Ph.D. program must hold an M.A. in Education or a recognized equivalent degree from a recognized university. The applicant's record should indicate high academic standing (a minimum CGPA of 3.0/4.0) and evidence of research competence in the proposed area of doctoral research.

2. Applicants to the Certificate and M.A. programs must submit:
   • a current curriculum vitae;
   • a letter of intent specifying academic and professional experience and interests (specifically, research interests for the Thesis option or project interests for the Non-Thesis Project option).

   Applicants to the Ph.D. in Educational Studies program must submit:
   • a current curriculum vitae;
   • a letter of intent identifying the applicant's proposed research topic, potential supervisor, and expected professional direction. Please note that it is the Ph.D. applicant's responsibility to secure a supervisor as part of the admission process;
   • a four- to five-page summary of the proposed research topic identifying the applicant's main research questions, the research trends that have led to the questions, ways in which the research could be conducted, and relevant references.

3. Applicants must submit two letters of recommendation, at least one of which must be from a university-level instructor; the other may be from an administrator in an educationally relevant context.

4. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must meet one of the following English proficiency criteria:
   • IELTS with a minimum overall band of 7.0 with a minimum writing score of 7.0; or
   • TOEFL iBT (Internet-based test) – minimum overall band of 92 with a minimum score of 22 each for the Writing and Speaking sections and a minimum of 20 each for the Reading and Listening sections.

   For applicants to the Master of Arts in Teaching and Learning (MATL) (Non-Thesis):
   • IELTS with minimum overall band of 7.0 with a minimum of 7.0 each for the Writing, Speaking, Listening, and Reading sections; or
   • TOEFL iBT (Internet-based test) – minimum overall band of 92 with a minimum score of 22 each for the Writing, Speaking, Listening, and Reading sections.

   The Department reserves the right to evaluate the applicant's language proficiency before initial registration.

5. Further requirements applicable to specific options:
   • Graduate Certificates in Educational Leadership 1 and 2 – Normally, applicants are required to have at least two years of relevant educational experience (in leadership roles or related professional experience).
   • Graduate Certificate in Teaching English as a Second Language – Applicants are required to pass a written and oral English language proficiency test set by the Department.
   • Master of Arts in Second Language Education – Normally, applicants are required to have a minimum of 36 credits including a combination of relevant courses in education and language studies. Applicants are required to have at least two years of relevant professional experience in education.
   • Master of Arts in Educational Leadership – Normally, applicants are required to have at least two years of relevant leadership experience (teaching or related professional experience).
   • Master of Arts in Teaching and Learning (MATL) (Non-Thesis) – Please see the Departmental website for additional admission requirements. Applicants to the MATL TESL option are required to pass a written and oral English language proficiency test with a French component set by the Department. Applicants are required to have experience in educational settings (formal or informal).
Certificat d’études supérieures en pédagogie de l’immersion française – Applicants are required to pass a written and oral French language proficiency test set by the Department.

5.11.2.3.2 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

5.11.2.3.1 Additional Requirements
The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Personal Statement
- Research Proposal (for Ph.D. applicants)
- Ph.D. applicants must secure a Thesis Supervisor as part of the application process.

5.11.2.3.3 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Integrated Studies in Education and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program or www.mcgill.ca/dise/grad.

| M.A. Second Language Education, M.A. Educational Leadership, M.A. Education and Society, Graduate Certificate in International Leadership in Educational and Administrative Development | Application Opening Dates | Application Deadlines |
| | All Applicants | Non-Canadian citizens (incl. Special, Visiting & Exchange) | Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange) | Current McGill Students (any citizenship) |
| Fall Term: | Sept. 15 | Jan. 1 | Jan. 1 | Jan. 1 |
| Winter Term: | N/A | N/A | N/A | N/A |
| Summer Term: | N/A | N/A | N/A | N/A |

| Master of Arts in Teaching and Learning (MATL) | Application Opening Dates | Application Deadlines |
| | All Applicants | Non-Canadian citizens (incl. Special, Visiting & Exchange) | Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange) | Current McGill Students (any citizenship) |
| Fall Term: | N/A | N/A | N/A | N/A |
| Winter Term: | N/A | N/A | N/A | N/A |
| Summer Term: | May 15 | Dec. 15 | Jan. 15 | Jan. 15 |

| Graduate Certificate in Educational Leadership | Application Opening Dates | Application Deadlines |
| | All Applicants | Non-Canadian citizens (incl. Special, Visiting & Exchange) | Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange) | Current McGill Students (any citizenship) |
| Fall Term: | Sept. 15 | March 1 | March 1 | March 1 |
| Winter Term: | Feb. 15 | Sept. 10 | Oct. 15 | Oct. 15 |
| Summer Term: | N/A | N/A | N/A | N/A |
### Certificat d’études supérieures en pédagogie de l’immersion française

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<td>Current McGill Students</td>
<td>N/A</td>
</tr>
<tr>
<td>Canadian citizens/Perm.</td>
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<tr>
<td>residents of Canada</td>
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<tr>
<td>(incl. Special, Visiting</td>
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<tr>
<td>&amp; Exchange)</td>
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</table>

### Graduate Certificate in Teaching English as a Second Language

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td><strong>Fall Term:</strong></td>
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<td>Sept. 15</td>
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<td>&amp; Exchange)</td>
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### Ph.D. Educational Studies

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<tbody>
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<td><strong>Winter Term:</strong></td>
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<td>Current McGill Students</td>
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<td>Canadian citizens/Perm.</td>
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<td>(incl. Special, Visiting</td>
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<tr>
<td>&amp; Exchange)</td>
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<td><strong>Summer Term:</strong></td>
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<td>Current McGill Students</td>
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<td>(incl. Special, Visiting</td>
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</tr>
<tr>
<td>&amp; Exchange)</td>
<td></td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 5.11.2.4 Integrated Studies in Education Faculty

**Chair**

Steven Jordan

**Director of Teacher Education Programs & Certificates, and M.A. Programs**

Caroline Riches

**Assistant Director of Undergraduate Programs**

Sheryl Smith-Gilman

**Director of First Nations and Inuit Education**

James Howden

**Director of Ph.D. Program**

Marta Kobiela

**Director of Graduate Certificate in Educational Leadership, Assistant Director of M.A. Programs**

Lisa Starr
Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)
David Dillon; B.A.(St. Columban’s), M.S.(SW Texas St.), Ph.D.(Texas-Austin)
John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)
Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (Post-retirement)
Anthony Paré; B.Ed., M.A., Ph.D.(McG.)
Jacques J. Rebuffot; B. ès L., L. ès L., D.E.S.(Aix-Marseilles), Dip. I.E.P., Dr. 3rd Cy.(Strasbourg)
Bernard Shapiro; B.A.(McG.), M.A.T., Ed.D.(Harv.)
David C. Smith; B.Ed.(McG.), Ph.D.(Lond.), F.C.C.T., F.R.S.A.
Lise Winer; B.A.(Pitt.), M.A.(Minn.), Cert. Ped.(C'dia), Ph.D.(West Indies)
John Wolfforth; B.Sc.(Sheff.), M.A., Ph.D.(Br. Col.)

Professors

Lynn Butler-Kisber; B.Ed., M.Ed.(McG.), Ed.D.(Harv.)
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)
Claudia A. Mitchell; B.A.(Bran.), M.A.(Mt. St. Vin.), Ph.D.(Alta.) (James McGill Professor)

Associate Professors

Anila Asghar; M.S.(Punjab), M.A.(Col.), M.Ed., Ed.D.(Harv.)
Fiona Benson; B.A.(Ott.), M. Ed., Ph.D.(McG.)
Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)
Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)
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.)
Caroline Riches; B.A., M.Sc.(Alta.), Ph.D.(McG.)
Mela Sarkar; B.A., Dip.Ed.(McG.), M.A., Ph.D.(C'dia)
Annie Savard; B.Ed., M.A., Ph.D.(Laval)
Shaheen Sharif; B.G.S., M.A.Educ., 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.(McG.), M.A., Ph.D.(Vic., BC)
Georges Terroux; B.A.(Montr.), M.A.(Essex), Ph.D.(Montr.) (Post-retirement)
Boyd White; B.A.(Sir G. Wms.), B.F.A.(C'dia), M.F.A.(Inst. Allende, Guanajuato), Ph.D.(C'dia)

Assistant Professors

Susan Ballinger; B.A.(Wash.), M.A., Ph.D.(McG.)
Mindy Carter; B.A.(Dal.), B.Ed.(Lake.), M.A.(C'dia), Ph.D.(Br. Col.)
Christian Ehret; B.A., M.A.(Georgia), Ph.D.(Vanderbilt)
Allison Gonsalves; B.Sc.(W.Ont.), M.Sc.(Guelph), Ph.D.(McG.)
Blane Harvey; B.A.(Ott.), M.A., Ph.D.(McG.)
Philip Howard; B.A.(Cornell), Dip.Ed., M.A.(McG.), Ph.D.(OISE, Tor.)
Assistant Professors
Limin Jao; B.Sc., B.Ed.(Qu.), M.A., Ph.D.(OISE, Tor.)
Marta Kobiela; B.Sc., M.Sc.(Texas A & M), Ph.D.(Vanderbilt)
Joseph Levitan; B.A.(Brandeis), M.A.(Col.), Ph.D.(Penn. St.)
Naomi Nichols; B.A.(Trent), B.Ed., M.Ed., Ph.D.(York)
Lisa Starr; B.Ed.(Regina), M.A.(Phoenix), Ph.D.(Vic., BC)
Paul Zanazanian; B.A., M.A.(McG.), Ph.D.(Montr.)

Faculty Lecturers
James Howden; B.Ed.(McG.), M.Ed.(OISE, Tor.)
Stephen Peters; B.Ed.(Alta.), M.A., Ph.D.(McG.)
Sheryl Smith-Gilman; B.Ed., M.A., Ph.D.(McG.)
Lisa Trimble; B.A.(W. Laur.), M.A., Ph.D.(McG.)
Dawn Wiseman; B.Eng., Grad.Dip., M.A.(C'dia)

5.11.2.5 Master of Arts (M.A.) Education and Society (Thesis) (45 credits)

Thesis Courses (24 credits)
EDEM 621 (6) Thesis 1
EDEM 623 (6) Thesis 2
EDEM 699 (12) Thesis 3

Required Courses (6 credits)
EDEM 609 (3) Critical Perspectives in Educational Theory and Research
EDEM 690 (3) Research Methods: Theory and Practice

Elective Courses (15 credits)
15 credits at the 500, 600, or 700 level, chosen in consultation with the Thesis Supervisor or Graduate Program Director. The student may take a maximum of 6 credits from outside the Department.

5.11.2.6 Master of Arts (M.A.) Education and Society (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)
EDEM 621 (6) Thesis 1
EDEM 623 (6) Thesis 2
EDEM 699 (12) Thesis 3

Required Courses (9 credits)
EDEM 609 (3) Critical Perspectives in Educational Theory and Research
EDEM 690 (3) Research Methods: Theory and Practice
WMST 601 (3) Feminist Theories and Methods

Complementary Courses (3 credits)
3 credits chosen from the following, must be either:
or one 3-credit course, at the 500, 600, or 700 level on gender/women's issues, chosen in consultation with the Thesis Supervisor or Graduate Program Director.

**Elective Courses (9 credits)**

9 credits at the 500- level or higher, chosen in consultation with the Thesis Supervisor or Graduate Program Director. Maximum 3 credits from outside the Department.

**5.11.2.7 Master of Arts (M.A.) Education and Society (Thesis): Mathematics and Science Education (45 credits)**

### Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 621</td>
<td>6</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>EDEM 623</td>
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<td>Thesis 2</td>
</tr>
<tr>
<td>EDEM 699</td>
<td>12</td>
<td>Thesis 3</td>
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### Required Courses (12 credits)

<table>
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<tr>
<th>Course Code</th>
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<th>Course Name</th>
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<tr>
<td>EDEC 624</td>
<td>3</td>
<td>Researching, Teaching, Learning and Teacher Education</td>
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<tr>
<td>EDEC 625</td>
<td>3</td>
<td>MA Seminar in Practice-Based Teacher Education 1</td>
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<td>EDEC 626</td>
<td>3</td>
<td>MA Seminar in Math and Science Education 2</td>
</tr>
<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Theory and Practice</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

3 credits of graduate-level courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
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<td>EDEC 646</td>
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<td>Sociocultural and Epistemic Understandings of Science</td>
</tr>
<tr>
<td>EDEC 647</td>
<td>3</td>
<td>Sociocultural and Epistemic Understandings of Mathematics</td>
</tr>
</tbody>
</table>

3 credits of courses, from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 606</td>
<td>3</td>
<td>Autobiographical Approaches in Education</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
<tr>
<td>EDEM 609</td>
<td>3</td>
<td>Critical Perspectives in Educational Theory and Research</td>
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<td>EDEM 644</td>
<td>3</td>
<td>Curriculum Development and Implementation</td>
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<td>EDEM 692</td>
<td>3</td>
<td>Qualitative Research Methods</td>
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<td>EDER 608</td>
<td>3</td>
<td>Educational Implications of Social Theory</td>
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<td>EDPE 635</td>
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<td>Theories of Learning and Instruction</td>
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<td>EDPE 676</td>
<td>3</td>
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<td>EDPE 687</td>
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<td>Qualitative Methods in Educational Psychology</td>
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<td>EDSL 630</td>
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<td>Qualitative/Ethnographic Methods</td>
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<td>EDTL 500</td>
<td>3</td>
<td>Applications of Educational Psychology Across Classrooms</td>
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<td>EDTL 508</td>
<td>3</td>
<td>Critical Influences on Educational Praxis</td>
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</table>

**Elective Course (3 credits)**

3 credits at the 500, 600, or 700 level chosen in consultation with the Thesis Supervisor or Graduate Program Director.
### 5.11.2.8 Master of Arts (M.A.) Education and Society (Non-Thesis) (45 credits)

The M.A. non-thesis option consists mostly of coursework, and includes two 6 credit projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The project creates an opportunity for students to investigate a particular interest.

#### Research Project (12 credits)

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<tr>
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<td>EDER 634</td>
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<td>Project 2</td>
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#### Required Courses (6 credits)

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<th>Description</th>
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<tbody>
<tr>
<td>EDEM 609</td>
<td>3</td>
<td>Critical Perspectives in Educational Theory and Research</td>
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<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Theory and Practice</td>
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#### Complementary Courses (15 credits)

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<tr>
<td>EDEC 606</td>
<td>3</td>
<td>Autobiographical Approaches in Education</td>
</tr>
<tr>
<td>EDEC 612</td>
<td>3</td>
<td>Digital Media and Learning</td>
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<tr>
<td>EDEC 617</td>
<td>3</td>
<td>Special Topics - Literacy Studies</td>
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<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
</tr>
<tr>
<td>EDEC 627</td>
<td>3</td>
<td>Critical Discourse Studies in Education</td>
</tr>
<tr>
<td>EDEC 628</td>
<td>3</td>
<td>Literacy - Multilingual/Multicultural Settings</td>
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<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
<tr>
<td>EDER 600</td>
<td>3</td>
<td>Globalization, Education &amp; Change</td>
</tr>
<tr>
<td>EDER 606</td>
<td>3</td>
<td>Philosophy of Moral Education</td>
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<tr>
<td>EDER 607</td>
<td>3</td>
<td>Ethics and Values in Education</td>
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<tr>
<td>EDER 608</td>
<td>3</td>
<td>Educational Implications of Social Theory</td>
</tr>
<tr>
<td>EDER 609</td>
<td>3</td>
<td>Education and Philosophical Thought</td>
</tr>
<tr>
<td>EDER 614</td>
<td>3</td>
<td>Sociology of Education</td>
</tr>
<tr>
<td>EDER 615</td>
<td>3</td>
<td>Introduction to Philosophy of Education</td>
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<td>EDER 617</td>
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<td>Aesthetics and Education</td>
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<td>EDER 622</td>
<td>3</td>
<td>Studies in Comparative Education</td>
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<td>EDER 625</td>
<td>3</td>
<td>Topics: Culture in Education</td>
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<td>EDER 626</td>
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<td>Topics: Value in Education</td>
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<td>EDER 643</td>
<td>3</td>
<td>Women, Education and Development</td>
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<tr>
<td>EDER 649</td>
<td>3</td>
<td>Education: Multicultural Societies</td>
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</table>

#### Elective Courses (12 credits)

12 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits outside DISE is permitted.

### 5.11.2.9 Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work (45 credits)

The M.A. in Education and Society; Non-Thesis-Course Work program consists exclusively of course work. This option is less research-oriented than the thesis and non-thesis project options and is suitable for practitioners interested in professional development with a theoretical orientation.

#### Required Courses (9 credits)
### Critical Perspectives in Educational Theory and Research (3)
EDEM 609

### Globalization, Education & Change (3)
EDER 600

### Education and Philosophical Thought (3)
EDER 609

#### Complementary Courses (21 credits)

21 credits from the following:

- EDEC 602 (3) Foundations in Curriculum
- EDEC 606 (3) Autobiographical Approaches in Education
- EDEC 612 (3) Digital Media and Learning
- EDEC 617 (3) Special Topics - Literacy Studies
- EDEC 620 (3) Meanings of Literacy
- EDEC 627 (3) Critical Discourse Studies in Education
- EDEC 628 (3) Literacy - Multilingual/Multicultural Settings
- EDEC 635 (3) Research Writing
- EDEM 644 (3) Curriculum Development and Implementation
- EDEM 660 (3) Community Relations in Education
- EDEM 676 (3) Organising Non-Formal Learning
- EDEC 690 (3) Research Methods: Theory and Practice
- EDER 606 (3) Philosophy of Moral Education
- EDER 607 (3) Ethics and Values in Education
- EDER 608 (3) Educational Implications of Social Theory
- EDER 614 (3) Sociology of Education
- EDER 615 (3) Introduction to Philosophy of Education
- EDER 617 (3) Aesthetics and Education
- EDER 622 (3) Studies in Comparative Education
- EDER 625 (3) Topics: Culture in Education
- EDER 626 (3) Topics: Value in Education
- EDER 643 (3) Women, Education and Development
- EDER 649 (3) Education: Multicultural Societies

#### Elective Courses (15 credits)

15 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits, at the 500 level or higher, may be taken outside of the Department, selected in consultation with the approval of Program Coordinator or Director, and Department Chair.

**5.11.2.10 Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work Math & Science Education (45 credits)**

The M.A. in Education and Society; Non-Thesis-Course Work - Mathematics and Science Education program emphasizes a pedagogical understanding of mathematics and science education, including a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have developed understanding of research in mathematics and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

#### Required Courses (12 credits)

- EDEC 624 (3) Researching, Teaching, Learning and Teacher Education
- EDEC 625 (3) MA Seminar in Practice-Based Teacher Education 1
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 626</td>
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<td>MA Seminar in Math and Science Education 2</td>
</tr>
<tr>
<td>EDEM 609</td>
<td>(3)</td>
<td>Critical Perspectives in Educational Theory and Research</td>
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**Complementary Courses (18 credits)**

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<th>Credits</th>
<th>Course Title</th>
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</thead>
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<td>EDEC 646</td>
<td>(3)</td>
<td>Sociocultural and Epistemic Understandings of Science</td>
</tr>
<tr>
<td>EDEC 647</td>
<td>(3)</td>
<td>Sociocultural and Epistemic Understandings of Mathematics</td>
</tr>
</tbody>
</table>

15 credits from the following:

<table>
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</thead>
<tbody>
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<td>EDEC 602</td>
<td>(3)</td>
<td>Foundations in Curriculum</td>
</tr>
<tr>
<td>EDEC 606</td>
<td>(3)</td>
<td>Autobiographical Approaches in Education</td>
</tr>
<tr>
<td>EDEC 612</td>
<td>(3)</td>
<td>Digital Media and Learning</td>
</tr>
<tr>
<td>EDEC 627</td>
<td>(3)</td>
<td>Critical Discourse Studies in Education</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>(3)</td>
<td>Research Writing</td>
</tr>
<tr>
<td>EDEM 644</td>
<td>(3)</td>
<td>Curriculum Development and Implementation</td>
</tr>
<tr>
<td>EDEM 660</td>
<td>(3)</td>
<td>Community Relations in Education</td>
</tr>
<tr>
<td>EDEM 676</td>
<td>(3)</td>
<td>Organising Non-Formal Learning</td>
</tr>
<tr>
<td>EDEM 690</td>
<td>(3)</td>
<td>Research Methods: Theory and Practice</td>
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<tr>
<td>EDER 600</td>
<td>(3)</td>
<td>Globalization, Education &amp; Change</td>
</tr>
<tr>
<td>EDER 606</td>
<td>(3)</td>
<td>Philosophy of Moral Education</td>
</tr>
<tr>
<td>EDER 607</td>
<td>(3)</td>
<td>Ethics and Values in Education</td>
</tr>
<tr>
<td>EDER 608</td>
<td>(3)</td>
<td>Educational Implications of Social Theory</td>
</tr>
<tr>
<td>EDER 609</td>
<td>(3)</td>
<td>Education and Philosophical Thought</td>
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<tr>
<td>EDER 614</td>
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<tr>
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<td>(3)</td>
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<td>Topics: Value in Education</td>
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<td>EDPE 635</td>
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<tr>
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**Elective Courses**

15 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

**5.11.2.11 Master of Arts (M.A.) Education and Society (Non-Thesis): Gender and Women's Studies (45 credits)**

The M.A. non-thesis project option - Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit and wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods.
The non-thesis project option consists mainly of coursework, and includes two 6 credit projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The project must be on a topic centrally relating to issues of gender and/or women’s studies.

**Research Project (12 credits)**

- EDER 633 (6) Project 1
- EDER 634 (6) Project 2

**Required Courses (9 credits)**

- EDEM 609 (3) Critical Perspectives in Educational Theory and Research
- EDEM 690 (3) Research Methods: Theory and Practice
- WMST 601 (3) Feminist Theories and Methods

**Complementary Courses (15 credits)**

- 12 credits from the following:
  - EDEC 602 (3) Foundations in Curriculum
  - EDEC 606 (3) Autobiographical Approaches in Education
  - EDEC 612 (3) Digital Media and Learning
  - EDEC 617 (3) Special Topics - Literacy Studies
  - EDEC 620 (3) Meanings of Literacy
  - EDEC 628 (3) Literacy - Multilingual/Multicultural Settings
  - EDEC 635 (3) Research Writing
  - EDER 603 (6) Individual Reading Course
  - EDER 606 (3) Philosophy of Moral Education
  - EDER 607 (3) Ethics and Values in Education
  - EDER 608 (3) Educational Implications of Social Theory
  - EDER 609 (3) Education and Philosophical Thought
  - EDER 614 (3) Sociology of Education
  - EDER 615 (3) Introduction to Philosophy of Education
  - EDER 617 (3) Aesthetics and Education
  - EDER 622 (3) Studies in Comparative Education
  - EDER 625 (3) Topics: Culture in Education
  - EDER 626 (3) Topics: Value in Education
  - EDER 643 (3) Women, Education and Development
  - EDER 649 (3) Education: Multicultural Societies

- 3 credits chosen from the following, must be either:
  - WMST 602 (3) Feminist Research Symposium

 or one 3-credit course, at the 500 level or higher, on gender/women's issues.

**Elective Courses (9 credits)**

9 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits outside of DISE is permitted.
5.11.2.12 Master of Arts (M.A.) Education and Society (Non-Thesis): Jewish Education (45 credits)

This program is designed to offer a graduate-level point of entry into the teaching profession for students who typically will have completed a B.A. with minor or major in Jewish Studies. The M.A. will not provide Quebec Government teacher certification (in Quebec, certification is at the B.Ed. level), but at the present time, Jewish schools may hire non-certified teachers of Jewish Studies at their discretion.

Students interested in doing a research-focused M.A. in the area of Jewish Education should follow one of the other graduate degree offerings within the area of Education and Society.

**Required Internship (15 credits)**

- EDER 610D1 (7.5) Internship
- EDER 610D2 (7.5) Internship

**Required Courses (6 credits)**

- EDEM 690 (3) Research Methods: Theory and Practice
- EDER 520 (3) Issues in Jewish Education

**Complementary Courses (24 credits)**

24 credits at the 500, 600, or 700 level, selected in consultation with the program adviser. Students will normally follow this profile:

- 9 credits from the course offerings of the Department of Jewish Studies, Faculty of Arts.
- 9 credits chosen from the following courses:
  - EDER 521 (3) Teaching Judaism: Yiddish
  - EDER 522 (3) Teaching Judaism: Hebrew
  - EDER 523 (3) Teaching Judaism: Bible
  - EDER 524 (3) Teaching Judaism: History
  - EDER 525 (3) Teaching Judaism: Holidays
  - EDER 526 (3) Teaching Judaism: Liturgy
  - EDER 527 (3) Teaching Judaism: Special Topics
  - EDER 528 (3) Teaching Judaism: The Holocaust
- 6 credits selected from the following courses:
  - EDPE 535 (3) Instructional Design
  - EDPE 616 (3) Cognitive Development
  - EDPI 526 (3) Talented and Gifted Students
  - EDPI 642 (3) Inclusion: Past, Present & Future
  - EDPI 654 (3) Instruction/Curriculum Adaptation

**Language Requirement**

- EDER 529 (0) Hebrew Language Requirement

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5.11.2.13 Master of Arts (M.A.) Education and Society (Non-Thesis): Project Math & Science Education (45 credits)

The M.A. in Education and Society (Non-Thesis): Project Mathematics and Science Education program emphasizes action-oriented research in mathematics and science education, with a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher
preparation, and research in both of these areas. It will produce graduates: who view improving mathematics and science education from a teaching and learning perspective; have developed an understanding of research in mathematics and science education; and have sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

**Project Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
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<td>Project 2</td>
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**Required Courses (15 credits)**

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<td>MA Seminar in Practice-Based Teacher Education 1</td>
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<td>EDEC 626</td>
<td>(3)</td>
<td>MA Seminar in Math and Science Education 2</td>
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<td>EDEM 609</td>
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<td>Critical Perspectives in Educational Theory and Research</td>
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<tr>
<td>EDEM 690</td>
<td>(3)</td>
<td>Research Methods: Theory and Practice</td>
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**Complementary Courses (12 credits)**

3 credits from the following:

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<tr>
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<td>EDEC 647</td>
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9 credits from the following:

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<td>Autobiographical Approaches in Education</td>
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<td>Globalization, Education &amp; Change</td>
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<td>EDER 607</td>
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<td>EDER 608</td>
<td>(3)</td>
<td>Educational Implications of Social Theory</td>
</tr>
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<td>EDER 609</td>
<td>(3)</td>
<td>Education and Philosophical Thought</td>
</tr>
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<td>EDER 614</td>
<td>(3)</td>
<td>Sociology of Education</td>
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<td>EDER 615</td>
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<td>Introduction to Philosophy of Education</td>
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<td>EDER 622</td>
<td>(3)</td>
<td>Studies in Comparative Education</td>
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<td>EDER 625</td>
<td>(3)</td>
<td>Topics: Culture in Education</td>
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<td>EDER 643</td>
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<tr>
<td>EDER 649</td>
<td>(3)</td>
<td>Education: Multicultural Societies</td>
</tr>
</tbody>
</table>
Elective Courses

6 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

5.11.2.14 Master of Arts (M.A.) Educational Leadership (Thesis) (45 credits)

Thesis Courses (24 credits)

EDEM 621 (6) Thesis 1
EDEM 623 (6) Thesis 2
EDEM 699 (12) Thesis 3

Required Courses (9 credits)

EDEM 609 (3) Critical Perspectives in Educational Theory and Research
EDEM 610 (3) Leadership in Action
EDEM 673 (3) Leadership Theory in Education

Complementary Courses (6 credits)

6 credits selected from the following courses:

EDEC 606 (3) Autobiographical Approaches in Education
EDEM 690 (3) Research Methods: Theory and Practice
EDEM 692 (3) Qualitative Research Methods
EDSL 630 (3) Qualitative/Ethnographic Methods

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.11.2.15 Master of Arts (M.A.) Educational Leadership (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)

EDEM 621 (6) Thesis 1
EDEM 623 (6) Thesis 2
EDEM 699 (12) Thesis 3

Required Courses (12 credits)

EDEM 609 (3) Critical Perspectives in Educational Theory and Research
EDEM 610 (3) Leadership in Action
EDEM 673 (3) Leadership Theory in Education
WMST 601 (3) Feminist Theories and Methods
Complementary Courses (6 credits)

3 credits selected from the following courses:

- EDEC 606 (3) Autobiographical Approaches in Education
- EDEM 690 (3) Research Methods: Theory and Practice
- EDEM 692 (3) Qualitative Research Methods
- EDSL 630 (3) Qualitative/Ethnographic Methods

3 credits selected from the following, must be either:

- WMST 602 (3) Feminist Research Symposium

or one 3 credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.11.2.16 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Course Work (45 credits)

Required Courses (9 credits)

- EDEM 609 (3) Critical Perspectives in Educational Theory and Research
- EDEM 610 (3) Leadership in Action
- EDEM 673 (3) Leadership Theory in Education

Complementary Courses (30 credits)

21 credits selected from the following courses:

- EDEM 606 (3) Educational Leadership Issues
- EDEM 628 (3) Education Resource Management
- EDEM 630 (3) Workplace Learning
- EDEM 637 (3) Managing Educational Change
- EDEM 644 (3) Curriculum Development and Implementation
- EDEM 646 (3) Planning and Evaluation
- EDEM 664 (3) Education and the Law
- EDEM 674 (3) Organizational Theory and Education
- EDEM 675 (3) Special Topics 1
- EDEM 677 (3) Special Topics 2
- EDEM 690 (3) Research Methods: Theory and Practice
- EDEM 693 (3) School Improvement Approaches

9 credits selected from the following courses:

- EDEC 602 (3) Foundations in Curriculum
- EDEC 606 (3) Autobiographical Approaches in Education
- EDEC 612 (3) Digital Media and Learning
- EDEC 620 (3) Meanings of Literacy
- EDEC 635 (3) Research Writing
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<tr>
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<td>Sociology of Education</td>
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<td>Critical and Ethical Dimensions of Sexualities Education</td>
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**Elective Courses (6 credits)**

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

**5.11.2.17 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Project (45 credits)**

**Research Project (12 credits)**

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**Required Courses (12 credits)**

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<td>Leadership in Action</td>
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<tr>
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**Complementary Courses (15 credits)**

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<td>EDEM 628</td>
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<td>Education Resource Management</td>
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<td>EDEM 630</td>
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<td>Workplace Learning</td>
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<td>EDEM 675</td>
<td>(3)</td>
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6 credits selected from the following courses:

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<td>EDEC 606</td>
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<td>EDEC 635</td>
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<td>EDER 607</td>
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<td>Ethics and Values in Education</td>
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<tr>
<td>EDER 636</td>
<td>(3)</td>
<td>Critical and Ethical Dimensions of Sexualities Education</td>
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</table>

**Elective Courses (6 credits)**

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

**5.11.2.18 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Gender and Women’s Studies (45 credits)**

**Research Project (12 credits)**

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**Required Courses (15 credits)**

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<td>WMST 601</td>
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**Complementary Courses (15 credits)**

9 credits selected from the following:

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<td>Educational Leadership Issues</td>
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3 credits selected from the following courses:

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<td>EDEC 606</td>
<td>(3)</td>
<td>Autobiographical Approaches in Education</td>
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<tr>
<td>Course Code</td>
<td>Credits</td>
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<tr>
<td>EDEC 612</td>
<td>3</td>
<td>Digital Media and Learning</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
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<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
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<tr>
<td>EDER 607</td>
<td>3</td>
<td>Ethics and Values in Education</td>
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<tr>
<td>EDER 608</td>
<td>3</td>
<td>Educational Implications of Social Theory</td>
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<td>EDER 614</td>
<td>3</td>
<td>Sociology of Education</td>
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<tr>
<td>EDER 615</td>
<td>3</td>
<td>Introduction to Philosophy of Education</td>
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<tr>
<td>EDER 622</td>
<td>3</td>
<td>Studies in Comparative Education</td>
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<tr>
<td>EDER 625</td>
<td>3</td>
<td>Topics: Culture in Education</td>
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<tr>
<td>EDER 626</td>
<td>3</td>
<td>Topics: Value in Education</td>
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<tr>
<td>EDER 636</td>
<td>3</td>
<td>Critical and Ethical Dimensions of Sexualities Education</td>
</tr>
</tbody>
</table>

3 credits selected from the following, must be either:

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDER 636</td>
<td>3</td>
<td>Critical and Ethical Dimensions of Sexualities Education</td>
</tr>
<tr>
<td>EDER 643</td>
<td>3</td>
<td>Women, Education and Development</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

or one 3-credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).

**Elective Course**

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

### 5.11.19 Master of Arts (M.A.) Second Language Education (Thesis) (45 credits)

The M.A. in Second Language Education consists of a 45-credit thesis or non-thesis program. It provides an overview of the state of the art in second language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curriculum/methods and program planning areas (for example, content-based second language teaching or “immersion”), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second language teaching practitioners, program administrators or evaluators.

**Thesis Courses (24 credits)**

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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 666</td>
<td>6</td>
<td>Thesis Research 1</td>
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<tr>
<td>EDSL 667</td>
<td>6</td>
<td>Thesis Research 2</td>
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<tr>
<td>EDSL 668</td>
<td>6</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>EDSL 669</td>
<td>6</td>
<td>Thesis Research 4</td>
</tr>
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**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Theory and Practice</td>
</tr>
<tr>
<td>EDPE 575</td>
<td>3</td>
<td>Statistics for Practitioners</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
</tr>
<tr>
<td>EDSL 627</td>
<td>3</td>
<td>Instructed Second Language Acquisition Research</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDEM 609</td>
<td>3</td>
<td>Critical Perspectives in Educational Theory and Research</td>
</tr>
<tr>
<td>EDSL 617</td>
<td>3</td>
<td>Special Topic in Second Language Education</td>
</tr>
</tbody>
</table>
EDSL 620  (3)  Social Justice Issues in Second Language Education  
EDSL 624  (3)  Educational Sociolinguistics  
EDSL 629  (3)  Second Language Assessment  
EDSL 630  (3)  Qualitative/Ethnographic Methods  
EDSL 632  (3)  Second Language Literacy Development  
EDSL 640  (3)  Language Awareness: Theory and Practice  
EDSL 651  (3)  Content-Based L2 Learning  

**Elective Course (3 credits)**

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.11.2.20 Master of Arts (M.A.) Second Language Education (Thesis): Gender and Women's Studies (45 credits)

**Thesis Courses (24 credits)**

EDSL 666  (6)  Thesis Research 1  
EDSL 667  (6)  Thesis Research 2  
EDSL 668  (6)  Thesis Research 3  
EDSL 669  (6)  Thesis Research 4  

**Required Courses (15 credits)**

EDEM 690  (3)  Research Methods: Theory and Practice  
EDPE 575  (3)  Statistics for Practitioners  
EDSL 623  (3)  Second Language Learning  
EDSL 627  (3)  Instructed Second Language Acquisition Research  
WMST 601  (3)  Feminist Theories and Methods  

**Complementary Courses (6 credits)**

3 credits selected from the following courses:

EDEM 609  (3)  Critical Perspectives in Educational Theory and Research  
EDSL 617  (3)  Special Topic in Second Language Education  
EDSL 620  (3)  Social Justice Issues in Second Language Education  
EDSL 624  (3)  Educational Sociolinguistics  
EDSL 629  (3)  Second Language Assessment  
EDSL 630  (3)  Qualitative/Ethnographic Methods  
EDSL 632  (3)  Second Language Literacy Development  
EDSL 640  (3)  Language Awareness: Theory and Practice  
EDSL 651  (3)  Content-Based L2 Learning  

3 credits chosen from the following, must be either:

WMST 602  (3)  Feminist Research Symposium  

or one 3 credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).
5.11.2.21 Master of Arts (M.A.) Second Language Education (Non-Thesis) (45 credits)

The M.A. in Second Language Education consists of a 45-credit thesis or non-thesis program. It provides an overview of the state of the art in second language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning areas (for example, content-based second language teaching or "immersion"), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second language teaching practitioners, program administrators, or evaluators.

Required Courses (12 credits)

- EDEM 609 (3) Critical Perspectives in Educational Theory and Research
- EDPE 575 (3) Statistics for Practitioners
- EDSL 623 (3) Second Language Learning
- EDSL 627 (3) Instructed Second Language Acquisition Research

Complementary Courses (15 credits)

15 credits chosen from the following courses:

- EDEM 690 (3) Research Methods: Theory and Practice
- EDSL 601 (3) Methods and Curriculum in Second Language Teaching 1
- EDSL 602 (3) Methods and Curriculum in Second Language Teaching 2
- EDSL 617 (3) Special Topic in Second Language Education
- EDSL 620 (3) Social Justice Issues in Second Language Education
- EDSL 624 (3) Educational Sociolinguistics
- EDSL 629 (3) Second Language Assessment
- EDSL 630 (3) Qualitative/Ethnographic Methods
- EDSL 632 (3) Second Language Literacy Development
- EDSL 640 (3) Language Awareness: Theory and Practice
- EDSL 651 (3) Content-Based L2 Learning

Elective Courses (18 credits)

18 credits of courses at the 500, 600, or 700 level, are selected in consultation with the Graduate Program Director and may include complementary courses listed above. Up to 6 of the elective credits may include the following courses:

- CEAP 642 (1) Cornerstones of Academic Writing
- CEAP 643 (1) Literature Reviews and Scholarly Niches
- CESL 641 (1) Fundamentals of Academic Writing in English
- CESL 690 (3) Writing for Graduate Students
- EDEC 635 (3) Research Writing

An undergraduate language course (e.g. Spanish, Italian, Japanese).

5.11.2.22 Graduate Student Teaching / M.A. in Teaching and Learning Internship

The : Internships & Student Affairs Office (ISA) in the Faculty of Education is responsible for the placement and evaluation of all MATL student teachers registered in the Internship courses (EDIN course code).

5.11.2.22.1 Internships

MATL Internships:

- are required courses compliant with Ministry requirements and in accordance with the University–School Board agreements; organized and evaluated by the Faculty of Education's Internships & Student Affairs Office (ISA); student teachers are not permitted to contact potential host schools to obtain a placement (unless on paid contract; see below);
• are completed with an eligible Cooperating Teacher(s) as mentor(s), unless a student teacher has received ISA approval to use a paid teaching contract at an eligible host school to satisfy the Internship requirements (see section 5.11.2.22.3: Placement Options below);
• must be completed at the Secondary level within a public or private Anglophone school in the greater Montreal region, with the exception of the Teaching English as a Second Language (TESL) program, in which student teachers are placed in Francophone public or private schools. Student teachers may only be placed in a private school setting for one of the two required Internships;
• may exceptionally be completed in an adult education setting (Internship 2 only) or in a Francophone setting (Internship 2 only), with ISA’s authorization;
• require that students follow registration and placement request procedures as stipulated by the ISA. Students who do not follow procedures may not be assigned to a host school in a given term;
• may begin or end before or after the first/last day of lectures, and may continue during regularly scheduled University breaks;
• are not remunerated for student teachers placed with a Cooperating Teacher(s);
• require that student teachers be present in the host school on a full-time basis for the specified duration of the Internship (refer to dates on the www.mcgill.ca/isa/student-teaching/fedates);
• require that student teachers budget time and money for travel to and from their assigned host school;
• may not be completed in a host school where a student teacher has a family member working or attending;
• have a corequisite Professional Seminar component (see Minerva for dates and times).

5.11.2.22.2 Registration
Students:
• must take Internship 1 in the first Winter term of the program;
• must be in Satisfactory academic standing and have met all prerequisite and corequisite course requirements;
• registered for the Internship course will receive permission to access the online Student Teaching Placement Form at their official @mail.mcgill.ca email address; the Placement Form must be completed by the date indicated in the email for preferences to be registered;
• may defer an Internship with a valid reason by taking an official Leave of Absence from the University; valid reasons for a Leave of Absence can be viewed at www.mcgill.ca/gps/students/registration/progress/leave-vacation. On a case-by-case basis, students may be allowed to defer an Internship and continue in coursework dependent upon approval by the Program Director;
• should consult their MATL Program Coordinator or ISA Placement Coordinator for further assistance, if required.

Note: Minerva does not always prevent students from registering for courses which they should not take. It is each student's responsibility to be aware of prerequisites, corequisites, restrictions, and Faculty regulations.

5.11.2.22.3 Placement Options
Cooperating Teacher
Student teachers without an approved teaching contract will be placed by an ISA Placement Coordinator in the classroom of an eligible Cooperating Teacher(s) and must follow the host school's schedule on a full-time basis. Student teachers in this situation must not contact potential host schools for placements.

Contract
Student teachers who have secured a paid teaching contract in the appropriate Internship term may request to have this contract reviewed by the ISA to see if it will fulfill the Internship requirements relative to number of hours, context, subject area, etc.

Please note, student teachers who have already been placed with a Cooperating Teacher for their Internship and subsequently wish to accept a contract either before or during the Internship must register a request with the ISA; approval is at the discretion of the ISA Director.

Students who wish to have a contract evaluated must:
• consult MATL guidelines to determine if the contract may be eligible to meet Internship requirements;
• ensure that the contract is for a minimum 70% of a full-time teaching workload; 100% of actual teaching hours must be in the appropriate teachable subject area;
• complete the full number of required hours—per Internship guidelines—which may necessitate an extension of the Internship dates;
• submit a copy of the contract (or a detailed letter from the School Administrator/HR) confirming the teaching schedule and conditions to the ISA; any further modification of an approved contract must be approved by the ISA.

5.11.2.22.4 Internship Guidelines (Syllabus)
Detailed Internship guidelines and copies of evaluation forms for each Internship are posted on the ISA website. Students are responsible for familiarizing themselves with the Internship objectives, evaluation criteria, and forms prior to the start of each Internship.

5.11.2.22.5 Student Responsibilities
Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Internship, including pedagogical and professional behaviour (available at www.mcgill.ca/isa) prior to the start of the Internship.

Students should not engage in any type of employment during the course of the Internship (with the exception of a teaching contract used to fulfill the Internship requirements) nor register for any additional/non-required course(s) which may interfere with the successful outcome of the Internship.

ISA relies on the goodwill of Cooperating Teachers and School Administrators to arrange placements. To that end, the ISA strives to maintain professional relationships established over time with partner schools. Student teachers in the MATL program are advised to be aware of the commitment they are making...
to their chosen career when beginning the Internship. All decisions and actions should reflect the ethics of the teaching profession and the highest standards of professionalism.

**Attendance and Absences**

Punctual attendance is required at the host school for the duration of the Internship (per the host school’s full-day schedule and not that of the Cooperating Teacher’s). Unexcused absences from the Internship and/or corequisite courses, including Professional Seminar, may result in exclusion from the corequisite course or removal from/failure in the Internship.

Excused absences include:

- *Illness*: Student teachers may be absent for up to 2 days without supporting medical documentation; after 2 days, a student teacher must obtain a supporting medical note and the outcome of the Internship may be evaluated by the ISA Director, as necessary;
- *McGill Exam*: Student teachers with a scheduled McGill exam may be absent from the host school on the appointed day; this provision does not cover non-McGill exams;
- *Religious Observation*: Student teachers are permitted to be absent for religious holy days, as outlined in McGill’s *Policy on holy days*;
- *McGill Varsity Sporting Event(s)*: Student teachers are permitted to participate in a sporting event as a member of a McGill varsity team; student teachers must provide the ISA with supporting documentation from McGill *Athletics & Recreation*.

Days missed due to excused absence must be made up, generally, at the end of the Internship.

In the case of a *foreseeable absence* (e.g. religious observation, varsity sporting event, etc.), student teachers must advise the below noted parties before the start of the Internship or, if the Internship has already commenced, at least two weeks in advance. In the case of an *unforeseeable absence* (e.g. illness), student teachers must advise the below noted parties as soon as possible:

- Host School Administrative Office
- Co-operating Teacher(s)
- McGill Field Supervisor
- McGill ISA Placement Coordinator (by e-mail or by phone: 514-398-7046)

Absences for any other reason, including but not limited to marriage, family events, vacation, extracurricular activities, employment, or conflicting courses, are not permitted during the Internship. Students who may need to defer the Internship or rearrange their course schedule should contact their Program Coordinator.

For student teachers on a paid contract, in case of a conflict between the University’s attendance policies and that of the host school, please contact the ISA.

**Judicial Record Verification**

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 minor students, and this includes student teachers. Each school board or private school may have its own administrative procedures for verification. Students are responsible for complying any request for judicial record verification. Any student unable to obtain the required security clearance will not be permitted to undertake their Internship(s) and, consequently, will be withdrawn from the MATL program as the Internships are a mandatory requirement. Additional information about the judicial record verification process can be found on the [www.mcgill.ca/isa/student-teaching/preparation](http://www.mcgill.ca/isa/student-teaching/preparation).

**Work Permit for International Students**

In order to be in compliance with government regulations, international students (students who are not Permanent Residents or citizens of Canada) should hold a valid Internship/Co-op Work Permit issued by Citizenship and Immigration Canada (CIC) to complete their Internships. This permit is independent from the paid off-campus work permit which is included as part of the study permit and requires a separate application. For detailed instructions and assistance with the application, students should contact [www.mcgill.ca/internationalstudents](http://www.mcgill.ca/internationalstudents).

5112226 Grading and Credit

Internships are graded according to the graduate grading scale (section 1.1.8.1: Grading and Grade Point Averages (GPA)).

For students admitted to the MATL program **prior to Summer 2017**:

- A final grade is assigned for the Internship course (EDIN) based on a combination of their marks in the field work (Internship) and Professional Seminar components;
- Grades are weighted as follows: Supervisor Summative (40%), Cooperating Teacher Summative (40%), Professional Seminar Grade (20%). In the case of the Summative Evaluations, which are marked on a 1–5 point scale across 12 Professional Competencies (5 being the highest possible mark), each mark out of 5 is assigned a corresponding number out of 100 and an average is calculated to reach a final numerical grade out of 100; this is then converted to the corresponding letter grade;
- Students must pass both the Internship and Professional Seminar components of the course individually in order to pass the Internship (EDIN) course as a whole.

For students admitted to the MATL program **in Summer 2017 and beyond**:

- A final grade is assigned for the Internship course (EDIN) based on a combination of their marks in the field work (Internship) alone;
- Grades are weighted as follows: Supervisor Summative (50%), Cooperating Teacher Summative (50%); on both Summatives, which are marked on a 1–5 point scale across 12 Professional Competencies (5 being the highest possible mark), each mark out of 5 is assigned a corresponding number out of 100 and an average is calculated to reach a final numerical grade out of 100; this is then converted to the corresponding letter grade;
- Students must pass both the Internship 1 (EDIN 610) and the Professional Seminar 1 course (EDPS 610) in order to proceed to Internship 2 (EDIN 620) and the Professional Seminar 2 course (EDPS 620).
The section 1.2.2: Failure Policy applies. Where a student is experiencing serious pedagogical or professional difficulties in an Internship, the ISA Director will review the case, including formal evaluations as well as written reports from the field, to render one of the following decisions:

- If the student has demonstrated potential to successfully reach the required standards of the Internship, a grade of "F" may be assigned for the EDIN course with permission to repeat an Internship during the next term in which it is offered. Per the Graduate Studies policy, a subsequent Failure (F, J, KF, WF) in an Internship or any other course will require withdrawal from the MATL program (NB: if the student has already obtained one "F", the standard failure policy applies);
- Assign a grade of "F" for the EDIN course and submit a request to Graduate & Postdoctoral Studies, asking that the student be withdrawn from the MATL program immediately (with relevant supporting documentation).

An MATL student may appeal any final outcome of an Internship course (EDIN) within 30 days of the posted grade by making a written application to the Faculty of Education – Student Affairs Committee (SAC) (isa.education@mcgill.ca). If the outcome of the SAC, once concluded, is not accepted by the student, a formal application may be made to the Associate Dean of Graduate and Postdoctoral Studies for Education.

Withdrawal from Internship

- A request for withdrawal (with refund) from the Internship (EDIN course) for any reason must be done at least two weeks before the start of the Internship; the student teacher is responsible for registering this request with the ISA in writing by this deadline;
- Students wishing to withdraw for any other reason, including illness, personal reasons, etc., from an Internship (EDIN course) less than two weeks before its start or after it is underway must register their request in writing to the ISA; based on the circumstances surrounding the request, the ISA Director will determine the final outcome of the Internship and Enrolment Services will determine eligibility for refund.

Early Dismissal from an Internship

At any time, student teachers may be removed from their Internship placement at the request of the host School Administrator and/or Cooperating Teacher, or at the request of the ISA Director. Students who are removed from an Internship placement will be informed of the reason for the early dismissal and will meet with the ISA Director.

Circumstances that could lead to early dismissal 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 or behaviour that contravenes the Code of Ethics for Student Teachers;
- Failure to make the improvements outlined on a Competency Improvement Plan (CIP) or Record of Early Concern (REC) by the date indicated.

In these cases, the final outcome for of the Internship (EDIN course) will be determined by the ISA Director.

Possible outcomes include:

- Reassignment during the same term, subject to availability of placements;
- W – Withdrawal (with or without refund, at the discretion of Graduate & Postdoctoral Studies);
- F – At the discretion of the ISA Director, the student may be permitted to register for the Internship again during the next regularly scheduled term;
- F – At the discretion of the ISA Director, with a request to Graduate & Postdoctoral Studies, asking for immediate removal (with relevant supporting documentation).

5.11.227 Code of Professional Conduct: Code of Ethics for Student Teachers

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.

**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 practise 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.

**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.

**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.

**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.
5.11.2.23 Master of Arts in Teaching and Learning – Regulations and Programs

5.11.2.23.1 Time Commitment

The M.A. in Teaching and Learning program is designed such that the program may be completed in five or six consecutive terms. In all cases, the program begins with mandatory courses in the Summer term. It is important to note the following:

- Internship semesters have 12 credits, including required corequisite courses.
- Internship placements are completed full-time in a secondary school. See section 5.11.2.22: Graduate Student Teaching / M.A. in Teaching and Learning Internship.
- Summer terms are mandatory in the MATL program. Consult the program overview by term on the Department website.

Students should consult a Program Coordinator and program overviews for details. Full-time/part-time status may also affect financial aid arrangements; contact the Scholarships and Student (Financial) Aid Office for more information. See section 1.1.2: Categories of Students for information about full-time and part-time study.

5.11.2.23.2 English Language Requirement

The Quebec Ministry of Education requires that all students in teacher education programs demonstrate their proficiency in the language of instruction. To fulfill this obligation, M.A. in Teaching and Learning students are required to write the English Examination for Teacher Certification (EETC) in May of the first Summer term of the program. Students must pass the examination in the first Summer term and prior to Internship 1. Students who do not pass the EETC exam must meet with the Program Coordinator to determine an individual program trajectory. Note, failure of the EETC exam may compromise a student's ability to maintain full time status.

The examination is coordinated by an independent body, the Centre for the English Exam for Teacher Certification. Information is available on the CEETC website. McGill assists with the administration and scheduling of the examination. To write this examination, students must first register on Minerva for a section of EDTL 515 in the Summer term, then register with the Centre at www.ceetc.ca and pay a fee before writing the test.

Students who do not pass both sections of the examination the first time are expected to meet with their Program Coordinator to plan a course of action for English language proficiency improvement. Students are required to take the EETC again, and must successfully complete the section that was not passed. A fee is charged each time the examination is written. Students who have not completed both sections of the examination on their fourth attempt are required to withdraw from the program, and must consult with an Program Coordinator about readmission procedures.

5.11.2.23.3 Capstone Research Project (CRP)

The CRP is a research project whereby MATL students, as they complete their courses and Internships, identify an area of professional interest either in the broad landscape of teaching and learning or directly related to their subject specialty. The CRP is supported and developed throughout the MATL program in designated courses. The CRP is due and presented in the final Professional Seminar of the program. Guidelines are posted on the Department's website and the Internships & Student Affairs website.

5.11.2.23.4 Portfolio

All students in the M.A. Teaching and Learning program are required to prepare a professional portfolio by the time of their graduation. The portfolio is a component of the professional seminars that are integrated with each Internship. The finished professional portfolio is a requirement of the MATL program. Guidelines are posted on the Internships & Student Affairs website.

5.11.2.23.5 Progress Tracking Report

Students in the M.A. Teaching and Learning program will engage in graduate progress tracking using the reporting forms and timelines established by the department specific to the MATL program.

5.11.2.24 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English or French Second Language (60 credits)

**The French option of this program is currently not offered.**

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education.

The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternately, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years.

Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) or the Test de certification en français écrit pour l'enseignement (TECFÉÉ), as appropriate, prior to taking EDIN 610 Internship 1.

Required Courses (54 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 612</td>
<td>(3)</td>
<td>Digital Media and Learning</td>
</tr>
<tr>
<td>EDEM 609</td>
<td>(3)</td>
<td>Critical Perspectives in Educational Theory and Research</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
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<td>EDIN 620</td>
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<td>Internship 2</td>
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<td>EDPS 620</td>
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<td>EDSL 500</td>
<td>(3)</td>
<td>Foundations and Issues in Second Language Education</td>
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<tr>
<td>EDSL 505</td>
<td>(3)</td>
<td>Second Language Acquisition Applied to Classroom Contexts</td>
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<td>EDTL 500</td>
<td>(3)</td>
<td>Applications of Educational Psychology Across Classrooms</td>
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<td>(0)</td>
<td>English Exam for Teacher Certification</td>
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<td>EDTL 601</td>
<td>(3)</td>
<td>Cross-curricular Teaching Methods</td>
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<tr>
<td>EDTL 604</td>
<td>(3)</td>
<td>Techniques for Assessment</td>
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<td>EDTL 609</td>
<td>(3)</td>
<td>Diverse Learners</td>
</tr>
<tr>
<td>EDTL 635</td>
<td>(3)</td>
<td>Applied Methods in Second Language Education</td>
</tr>
<tr>
<td>EDTL 640</td>
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<td>Teacher Inquiry and Action Research</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

3 credits selected from (in accordance with teaching English or French as a second language):

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<thead>
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<th>Course Title</th>
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</thead>
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<tr>
<td>EDSL 515</td>
<td>(3)</td>
<td>Étude de la langue française pour enseignants</td>
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</table>

3 credits selected from:

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDER 609</td>
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<tr>
<td>EDER 615</td>
<td>(3)</td>
<td>Introduction to Philosophy of Education</td>
</tr>
<tr>
<td>EDTL 506</td>
<td>(3)</td>
<td>Philosophy of Education</td>
</tr>
</tbody>
</table>

5.11.2.25 **Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English Language Arts Option (60 credits)**

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternatively, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years. Throughout the MATL, emphasis will be on the demonstration of mastery of the Quebec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) prior to taking EDIN 610 Internship 1.

**Required Courses (54 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>EDEC 612</td>
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<td>Digital Media and Learning</td>
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<tr>
<td>EDEC 620</td>
<td>(3)</td>
<td>Meanings of Literacy</td>
</tr>
<tr>
<td>EDEM 609</td>
<td>(3)</td>
<td>Critical Perspectives in Educational Theory and Research</td>
</tr>
<tr>
<td>EDIN 610</td>
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<tr>
<td>EDIN 620</td>
<td>(8)</td>
<td>Internship 2</td>
</tr>
<tr>
<td>EDPS 600</td>
<td>(3)</td>
<td>Introductory Professional Seminar</td>
</tr>
</tbody>
</table>
EDPS 610 (2)  Professional Seminar 1
EDPS 620 (1)  Professional Seminar 2
EDTL 500 (3)  Applications of Educational Psychology Across Classrooms
EDTL 515 (0)  English Exam for Teacher Certification
EDTL 601 (3)  Cross-curricular Teaching Methods
EDTL 604 (3)  Techniques for Assessment
EDTL 607 (3)  Language and Policy in Quebec Education
EDTL 609 (3)  Diverse Learners
EDTL 629 (3)  Applied Methods in Teaching Secondary Eng. Language Arts
EDTL 630 (3)  Advanced Applied Methods in Teaching Sec English Lang Arts
EDTL 640 (3)  Teacher Inquiry and Action Research

Complementary Courses (6 credits)
3 credits selected from:
- EDER 600 (3)  Globalization, Education & Change
- EDTL 508 (3)  Critical Influences on Educational Praxis

3 credits selected from:
- EDER 609 (3)  Education and Philosophical Thought
- EDER 615 (3)  Introduction to Philosophy of Education
- EDTL 506 (3)  Philosophy of Education

5.11.2.26 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Mathematics Option (60 credits)
The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternatively, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years. Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) prior to taking EDIN 610 Internship 1.

Required Courses (51 credits)
- EDEC 612 (3)  Digital Media and Learning
- EDEM 609 (3)  Critical Perspectives in Educational Theory and Research
- EDIN 610 (7)  Internship 1
- EDIN 620 (8)  Internship 2
- EDPS 600 (3)  Introductory Professional Seminar
- EDPS 610 (2)  Professional Seminar 1
- EDPS 620 (1)  Professional Seminar 2
- EDTL 500 (3)  Applications of Educational Psychology Across Classrooms
- EDTL 515 (0)  English Exam for Teacher Certification
- EDTL 601 (3)  Cross-curricular Teaching Methods
EDTL 604 (3) Techniques for Assessment
EDTL 607 (3) Language and Policy in Quebec Education
EDTL 609 (3) Diverse Learners
EDTL 628 (3) Advanced Methods in Teaching Mathematics in Sec. School
EDTL 640 (3) Teacher Inquiry and Action Research

Complementary Courses (9 credits)

3 credits selected from:
EDER 600 (3) Globalization, Education & Change
EDTL 508 (3) Critical Influences on Educational Praxis

3 credits selected from:
EDEC 647 (3) Sociocultural and Epistemic Understandings of Mathematics
EDTL 520 (3) Perspectives on Knowledge in Mathematics and Science

3 credits selected from:
EDER 609 (3) Education and Philosophical Thought
EDER 615 (3) Introduction to Philosophy of Education
EDTL 506 (3) Philosophy of Education

5.11.27 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Social Sciences Option (60 credits)

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternatively, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years. Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) prior to taking EDIN 610 Internship 1.

Required Courses (48 credits)
EDEC 612 (3) Digital Media and Learning
EDEM 609 (3) Critical Perspectives in Educational Theory and Research
EDIN 610 (7) Internship 1
EDIN 620 (8) Internship 2
EDPS 600 (3) Introductory Professional Seminar
EDPS 610 (2) Professional Seminar 1
EDPS 620 (1) Professional Seminar 2
EDTL 500 (3) Applications of Educational Psychology Across Classrooms
EDTL 515 (0) English Exam for Teacher Certification
EDTL 601 (3) Cross-curricular Teaching Methods
EDTL 604 (3) Techniques for Assessment
EDTL 607 (3) Language and Policy in Quebec Education
EDTL 609 (3) Diverse Learners
EDTL 633 (3) Applied Methods in Teaching Social Science in Sec. School
EDTL 640 (3) Teacher Inquiry and Action Research

**Complementary Courses (12 credits)**

3 credits selected from (in accordance with second specialization in Geography or Ethics & Religious Culture):

- EDTL 612 (3) Adv Applied Meth in Teach'g Ethics&ReligCulture in Sec Sch
- EDTL 634 (3) Adv Applied Meth in Teaching Social Sciences in Sec. School

3 credits selected from:

- EDEC 648 (3) Historical Knowledge and Social Change
- EDER 626 (3) Topics: Value in Education

3 credits selected from:

- EDER 600 (3) Globalization, Education & Change
- EDTL 508 (3) Critical Influences on Educational Praxis

3 credits selected from:

- EDER 609 (3) Education and Philosophical Thought
- EDER 615 (3) Introduction to Philosophy of Education
- EDTL 506 (3) Philosophy of Education

5.11.2.28 **Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Science and Technology Option (60 credits)**

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternatively, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years. Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) prior to taking EDIN 610 Internship 1.

**Required Courses (54 credits)**

- EDEC 612 (3) Digital Media and Learning
- EDEM 690 (3) Research Methods: Theory and Practice
- EDIN 610 (7) Internship 1
- EDIN 620 (8) Internship 2
- EDPS 600 (3) Introductory Professional Seminar
- EDPS 610 (2) Professional Seminar 1
- EDPS 620 (1) Professional Seminar 2
- EDTL 500 (3) Applications of Educational Psychology Across Classrooms
### Complementary Courses (6 credits)

3 credits selected from:

<table>
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<tr>
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<th>Credits</th>
<th>Title</th>
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<tbody>
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<tr>
<td>EDTL 525</td>
<td>3</td>
<td>Teaching Science and Technology</td>
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<tr>
<td>EDTL 601</td>
<td>3</td>
<td>Cross-curricular Teaching Methods</td>
</tr>
<tr>
<td>EDTL 604</td>
<td>3</td>
<td>Techniques for Assessment</td>
</tr>
<tr>
<td>EDTL 607</td>
<td>3</td>
<td>Language and Policy in Quebec Education</td>
</tr>
<tr>
<td>EDTL 609</td>
<td>3</td>
<td>Diverse Learners</td>
</tr>
<tr>
<td>EDTL 625</td>
<td>3</td>
<td>Applied Methods in Teaching Science in Secondary School</td>
</tr>
<tr>
<td>EDTL 626</td>
<td>3</td>
<td>Advanced Applied Methods in Teaching Science in Sec. School</td>
</tr>
<tr>
<td>EDTL 640</td>
<td>3</td>
<td>Teacher Inquiry and Action Research</td>
</tr>
</tbody>
</table>

3 credits selected from:

<table>
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<tr>
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<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDEC 646</td>
<td>3</td>
<td>Sociocultural and Epistemic Understandings of Science</td>
</tr>
<tr>
<td>EDTL 520</td>
<td>3</td>
<td>Perspectives on Knowledge in Mathematics and Science</td>
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</tbody>
</table>

### 5.11.29 Doctor of Philosophy (Ph.D.) Educational Studies

Students must satisfy all program requirements of the Ph.D.

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses (8 credits)

<table>
<thead>
<tr>
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<tbody>
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<td>Proseminar in Education 1</td>
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<td>EDEC 701</td>
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<td>Ph.D. Comprehensive Examination</td>
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<tr>
<td>EDEC 702</td>
<td>2</td>
<td>Proseminar in Education 2</td>
</tr>
<tr>
<td>EDEC 703</td>
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<td>Ph.D. Colloquium</td>
</tr>
</tbody>
</table>

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

### Complementary Courses (3 credits)

One of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 705</td>
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<td>Advanced Research Designs</td>
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<tr>
<td>EDEC 706</td>
<td>3</td>
<td>Textual Approaches to Research</td>
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<tr>
<td>EDEC 707</td>
<td>3</td>
<td>Interpretive Inquiry</td>
</tr>
<tr>
<td>EDEM 692</td>
<td>3</td>
<td>Qualitative Research Methods</td>
</tr>
<tr>
<td>EDSL 630</td>
<td>3</td>
<td>Qualitative/Ethnographic Methods</td>
</tr>
</tbody>
</table>
Elective Courses

3-12 credits

Elective courses required in the student's Ph.D. plan of study will be determined in consultation with the Doctoral Advisory Committee depending on the student's background and research interests. Students must take a minimum of 3 credits of elective courses.

Students admitted to Ph.D. 2 will normally take up to 12 credits of elective courses under the advice of their Doctoral Advisory Committee.

Students admitted to Ph.D. 1 without an M.A. may be advised by their Doctoral Advisory Committee to take more than 12 credits of elective courses depending on their background. If admitted to the program without at least 6 credits of M.A.-level research methods and/or Statistics courses, candidates may be expected to take such courses during their first year of study as advised.

These may be selected from current offerings of research methods courses either within or outside the Department, such as:

- EDEM 690 (3) Research Methods: Theory and Practice
- EDEM 692 (3) Qualitative Research Methods
- EDSL 630 (3) Qualitative/Ethnographic Methods

Students required by their Doctoral Advisory Committee to take graduate courses in statistics will select from a range of courses, such as the following:

- EDPE 575 (3) Statistics for Practitioners
- EDPE 676 (3) Intermediate Statistics
- EDPE 682 (3) Univariate/Multivariate Analysis

5.11.2.30 Doctor of Philosophy (Ph.D.) Educational Studies: Gender and Women's Studies

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (14 credits)

- EDEC 700 (2) Proseminar in Education 1
- EDEC 701 (0) Ph.D. Comprehensive Examination
- EDEC 702 (2) Proseminar in Education 2
- EDEC 703 (4) Ph.D. Colloquium
- WMST 601 (3) Feminist Theories and Methods
- WMST 602 (3) Feminist Research Symposium

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (6 credits)

One of the following courses:

- EDEC 705 (3) Advanced Research Designs
- EDEC 706 (3) Textual Approaches to Research
- EDEC 707 (3) Interpretive Inquiry
- EDEM 692 (3) Qualitative Research Methods
- EDSL 630 (3) Qualitative/Ethnographic Methods
One course, at the 500 level or higher on gender/women's issues, to be chosen from the approved list (available from the McGill Institute for Gender, Sexuality, and Feminist Studies) in consultation with the Doctoral Advisory Committee depending on the student's background and research interests. In some cases, additional courses may be required or recommended by the Doctoral Advisory Committee.

5.11.2.31 Doctor of Philosophy (Ph.D.) Educational Studies: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Educational Studies. The Ph.D. thesis must be on a topic relating to language acquisition.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (14 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 700</td>
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<td>Proseminar in Education 1</td>
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<tr>
<td>EDEC 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>EDEC 702</td>
<td>2</td>
<td>Proseminar in Education 2</td>
</tr>
<tr>
<td>EDEC 703</td>
<td>4</td>
<td>Ph.D. Colloquium</td>
</tr>
<tr>
<td>LING 710</td>
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<td>Language Acquisition Issues 2</td>
</tr>
<tr>
<td>PSYC 709</td>
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</tr>
<tr>
<td>SCSD 712</td>
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<td>Language Acquisition Issues 4</td>
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</table>

**Complementary Courses (9 credits)**

3 credits of graduate-level statistics from the courses below:

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 676</td>
<td>3</td>
<td>Intermediate Statistics</td>
</tr>
<tr>
<td>EDPE 682</td>
<td>3</td>
<td>Univariate/Multivariate Analysis</td>
</tr>
<tr>
<td>LING 620</td>
<td>3</td>
<td>Experimental Linguistics: Methods</td>
</tr>
<tr>
<td>PSYC 650</td>
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<td>Advanced Statistics 1</td>
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</table>

3 credits selected from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 705</td>
<td>3</td>
<td>Advanced Research Designs</td>
</tr>
<tr>
<td>EDEC 706</td>
<td>3</td>
<td>Textual Approaches to Research</td>
</tr>
<tr>
<td>EDEC 707</td>
<td>3</td>
<td>Interpretive Inquiry</td>
</tr>
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</table>

At least 3 credits selected from the following list:

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 620</td>
<td>3</td>
<td>Social Justice Issues in Second Language Education</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
</tr>
<tr>
<td>EDSL 624</td>
<td>3</td>
<td>Educational Sociolinguistics</td>
</tr>
<tr>
<td>EDSL 627</td>
<td>3</td>
<td>Instructed Second Language Acquisition Research</td>
</tr>
<tr>
<td>EDSL 629</td>
<td>3</td>
<td>Second Language Assessment</td>
</tr>
<tr>
<td>EDSL 632</td>
<td>3</td>
<td>Second Language Literacy Development</td>
</tr>
<tr>
<td>LING 555</td>
<td>3</td>
<td>Language Acquisition 2</td>
</tr>
</tbody>
</table>
LING 590 (3) Language Acquisition and Breakdown
LING 651 (3) Topics in Acquisition of Phonology
LING 655 (3) Theory of L2 Acquisition
LING 751 (3) Advanced Seminar: Experimental 1
LING 752 (3) Advanced Seminar: Experimental 2
PSYC 545 (3) Topics in Language Acquisition
PSYC 735 (3) Developmental Psychology and Language
SCSD 619 (3) Phonological Development
SCSD 632 (3) Phonological Disorders: Children
SCSD 633 (3) Language Development
SCSD 637 (3) Developmental Language Disorders 1
SCSD 643 (3) Developmental Language Disorders 2
SCSD 652 (3) Advanced Research Seminar 1
SCSD 653 (3) Advanced Research Seminar 2
SCSD 654 (3) Advanced Research Seminar 3

Elective Course
(0-2 credits)
0-2 credits from the following:
EDSL 711 (2) Language Acquisition Issues 3

5.11.2.32 Doctor of Philosophy (Ph.D.) Educational Studies: Mathematics and Science Education

This Ph.D. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. Applicants for the Ph.D. concentration in mathematics and science education would be expected to already have a Master's degree that included educational research.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (17 credits)
EDEC 624 (3) Researching, Teaching, Learning and Teacher Education
EDEC 700 (2) Proseminar in Education 1
EDEC 701 (0) Ph.D. Comprehensive Examination
EDEC 702 (2) Proseminar in Education 2
EDEC 703 (4) Ph.D. Colloquium
EDEC 708 (3) PhD Seminar in Practice-Based Teacher Education 1
EDEC 709 (3) PhD Seminar in Math and Science Education 2

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses
3-9 credits
3 credits of graduate-level courses in curriculum, from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 646</td>
<td>(3)</td>
<td>Sociocultural and Epistemic Understandings of Science</td>
</tr>
<tr>
<td>EDEC 647</td>
<td>(3)</td>
<td>Sociocultural and Epistemic Understandings of Mathematics</td>
</tr>
</tbody>
</table>

0-3 credits of advanced quantitative methods, as listed below. Students who have taken an equivalent course in quantitative methods, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 682</td>
<td>(3)</td>
<td>Univariate/Multivariate Analysis</td>
</tr>
</tbody>
</table>

0-3 credits of qualitative methods or advanced research design from the following: Students who have taken an equivalent course in qualitative methods or advanced research design, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 705</td>
<td>(3)</td>
<td>Advanced Research Designs</td>
</tr>
<tr>
<td>EDEC 706</td>
<td>(3)</td>
<td>Textual Approaches to Research</td>
</tr>
<tr>
<td>EDEC 707</td>
<td>(3)</td>
<td>Interpretive Inquiry</td>
</tr>
<tr>
<td>EDEM 692</td>
<td>(3)</td>
<td>Qualitative Research Methods</td>
</tr>
<tr>
<td>EDSL 630</td>
<td>(3)</td>
<td>Qualitative/Ethnographic Methods</td>
</tr>
</tbody>
</table>

Elective Courses
0-9 credits
Depending on the student's prior coursework and in consultation with the Supervisor and/or Doctoral Advisory Committee, an additional 0-9 credits of elective courses at the 500 level or higher may be required.

5.11.2.33 Graduate Certificate (Gr. Cert.) Educational Leadership 1 (15 credits)

This 15-credit program addresses the needs of experienced and aspiring school leaders who are taking increased responsibility for the students and communities they serve. The management of schools is increasingly seen as making a major contribution to the learning and personal development of students. The professional development of school leaders, educational reform, and school partnership form the basis for the program.

Course selection to be approved by Graduate Certificate Program Director.

Complementary Courses
15 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 635</td>
<td>(3)</td>
<td>Research Writing</td>
</tr>
<tr>
<td>EDEM 610</td>
<td>(3)</td>
<td>Leadership in Action</td>
</tr>
<tr>
<td>EDEM 628</td>
<td>(3)</td>
<td>Education Resource Management</td>
</tr>
<tr>
<td>EDEM 635</td>
<td>(3)</td>
<td>Fiscal Accountability in Education</td>
</tr>
<tr>
<td>EDEM 637</td>
<td>(3)</td>
<td>Managing Educational Change</td>
</tr>
<tr>
<td>EDEM 644</td>
<td>(3)</td>
<td>Curriculum Development and Implementation</td>
</tr>
<tr>
<td>EDEM 646</td>
<td>(3)</td>
<td>Planning and Evaluation</td>
</tr>
</tbody>
</table>

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

5.11.2.34 Graduate Certificate (Gr. Cert.) Educational Leadership 2 (15 credits)

This 15-credit program explores more deeply leadership theory and educational issues and applications in a practicum. Candidates for the Graduate Certificate in Educational Leadership 2 should normally have completed the first certificate. In combination, the two certificates allow school administrators to acquire the 30 graduate credits in the field of educational leadership required by the Quebec Ministry of Education.
Course selection to be approved by Graduate Certificate Program Director.

No course taken in Certificate 1 can be repeated in Certificate 2.

**Complementary Courses**

15 credits from:

- EDEM 606 (3) Educational Leadership Issues
- EDEM 660 (3) Community Relations in Education
- EDEM 664 (3) Education and the Law
- EDEM 671 (3) The Principalship
- EDEM 673 (3) Leadership Theory in Education
- EDEM 675 (3) Special Topics I
- EDEM 681 (3) Practicum - Administrative Studies
- EDEM 693 (3) School Improvement Approaches
- EDEM 695 (3) Policy Studies in Education

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

**5.11.2.35 Graduate Certificate (Gr. Cert.) International Leadership in Educational and Administrative Development (15 credits)**

The Graduate Certificate in International Leadership in Educational and Administrative Development (I-LEAD) targets leaders, consultants, senior management, administrators, and policy makers from a range of educational institutions (universities, colleges, private schools), organizations (hospitals, community, governmental), and the corporate sector. The varied curriculum provide a world-class global training experience in educational leadership. The majority of courses are delivered online asynchronously, with students accessing learning material and engaging in online discussions. Courses are offered online during the fall, winter, and spring semesters, and also include an intensive summer component on the McGill campus.

**Required Courses (15 credits)**

- EDLE 601 (3) Resource Administration & Fiscal Accountability
- EDLE 602 (3) Marketing & Strategy in International Education Leadership
- EDLE 603 (3) Educational Planning and Evaluation
- EDLE 604 (3) Education and Internationalization
- EDLE 605 (3) Leading for Success in Educational Institutions

**5.11.2.36 Graduate Certificate (Gr. Cert.) Teaching English as a Second Language (15 credits)**

This 15-credit certificate is designed as professional development for in-service teachers and candidates with a background in education, language studies, linguistics, or a related field, or as preparation for application to our M.A. in Second Language Education. The five courses that comprise the certificate provide a solid background and offer in-depth study in the field of second-language education from a range of perspectives and with a focus on research and applications to teaching. Please note that this certificate does not lead to teacher certification.

The Graduate Certificate in TESL is designed to be available to students worldwide. Courses are offered in a combination of online and face-to-face formats, and sequenced in such a way that students can complete the certificate in one year. The maximum time for completion is five years. The first three courses are offered online, and can be undertaken anywhere an Internet connection is available. The final two courses are offered face-to-face either on-site at McGill or at off-site locations with collaborative partners, if numbers warrant.

**Required Courses (15 credits)**

**Online Courses**

- EDSL 500 (3) Foundations and Issues in Second Language Education
- EDSL 505 (3) Second Language Acquisition Applied to Classroom Contexts
- EDSL 512 (3) Grammar in Teaching English as a Second Language
On-site at McGill in Intensive (1 month) Institute

Note: Off-site delivery can be considered for a specified minimum number of students. Certain limitations and additional costs would apply.

EDSL 601 (3)  Methods and Curriculum in Second Language Teaching 1
EDSL 602 (3)  Methods and Curriculum in Second Language Teaching 2

5.11.2.37 Certificat d’études supérieures en pédagogie de l’immersion française (Cert.ed.sup.) pédagogie de l’immersion française (15 crs)

Le certificat d’études supérieures en pédagogie de l’immersion française vise à faire la formation des enseignants en immersion française, tout en abordant les défis pédagogiques reliés à l’enseignement ciblant conjointement la langue et le contenu. Ce certificat d’études supérieures est destiné à la formation des enseignants des niveaux primaire et secondaire. A cette fin, il amène d’abord l’étudiant à comprendre les causes à la fois linguistiques et cognitives des difficultés qu’éprouvent les élèves en immersion. Ensuite, il propose une variété de stratégies d’enseignement propices à répondre à ces difficultés, ainsi que des situations d’apprentissage étayées par les enseignants de manière à dépasser le cloisonnement entre langue et contenu. La réussite d’un test de français est obligatoire lors de la demande d’admission.

Cours obligatoires (12 crédits)
EDSL 515 (3)  Étude de la langue française pour enseignants
EDSL 541 (3)  Littératie et littérature de jeunesse en contexte immersif
EDSL 544 (3)  Didactique du français en contexte immersif
EDSL 545 (3)  Fondements pédagogiques de l’immersion

Cours complémentaires (3 crédits)
EDSL 500 (3)  Foundations and Issues in Second Language Education
EDSL 505 (3)  Second Language Acquisition Applied to Classroom Contexts

5.11.3  Kinesiology and Physical Education

5.11.3.1  Location
Department of Kinesiology and Physical Education
Sir Arthur Currie Memorial Gymnasium
475 Pine Avenue West
Montreal QC H2W 1S4
Canada
Telephone: 514-398-4184, ext. 0302
Fax: 514-398-4186
Email: grad.kpe@mcgill.ca
Website: www.mcgill.ca/edu-kpe

5.11.3.2  About Kinesiology and Physical Education
The Department of Kinesiology and Physical Education provides a large variety of research opportunities in a number of areas related to human health and physical activity.

Master’s of Science Program
Examples of research pursued as part of the M.Sc. program include the following areas.

Exercise Physiology:
- obesity treatment, public health surveillance, and health;
- adaptive response of skeletal muscle in health, nutrition, disease, and aging;
- exercise and nutritional interventions designed to manage and treat chronic diseases;
- the impact of sex and sex hormones on neurovascular physiology;
- clinical and integrative exercise in cardio-respiratory physiology;
• muscle physiology and biophysics.

**Biomechanics and Motor Control:**
• ergonomics evaluation of fatigue and musculoskeletal disorders;
• walking and running locomotion gait research;
• sport equipment design and evaluation (e.g., helmets, footwear);
• motor control strategies and neurophysiology rehabilitation.

**Master's of Arts Program**
Examples of research pursued as part of the M.A. program include the following areas.

**Exercise and Health Psychology:**
• psychosocial determinants of health behaviour, body-related emotions, and physical self;
• motivation in youth sport and physical activity;
• school and community-based physical activity promotion; physical education and health development.

**Sports Psychology:**
• coaching expertise;
• team building;
• psychology of athletic injuries (concussions);
• hockey violence.

**Adapted Physical Activity:**
• physical activity participation in the community for people with mental health problems;
• self-regulation of physical activity and physical health for individuals with mental health problems;
• physical activity for people with attention-deficit hyperactivity disorder (ADHD) and movement difficulties;
• physical literacy of people with disabilities.

**Sport, Physical, and Health Education Research in Society**
• Physical and health education pedagogy, curriculum, and instruction;
• Narrative conceptions of knowledge and physical education teacher education;
• Sociology and cultural studies of sport, recreation, and leisure;
• Historical perspectives of sport and Canadian society;
• Indigenous sport and settler-colonialism.

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**section 5.11.3.5: Master of Arts (M.A.) Kinesiology and Physical Education (Thesis) (45 credits) and section 5.11.3.6: Master of Science (M.Sc.) Kinesiology and Physical Education (Thesis) (45 credits)**

The thesis programs in Kinesiology and Physical Education are designed to help students develop research skills and expertise in their selected areas of research. All students must have a physical science background to study in the M.Sc. program and a social-psychological background to study in the M.A. program. Students are supervised by a faculty researcher in their respective laboratory or clinical locations.

These research programs often lead to career advancement in academic, scholastic, industrial, clinical, and/or social health care settings.

**section 5.11.3.7: Master of Arts (M.A.) Kinesiology and Physical Education (Non-Thesis) (45 credits) and section 5.11.3.8: Master of Science (M.Sc.) Kinesiology and Physical Education (Non-Thesis) (45 credits)**

The non-thesis programs are currently not offered.

The non-thesis programs in Kinesiology and Physical Education are intended to help students develop professional skills related to their careers in kinesiology and physical education who do not have an interest in research. Students will work with a supervisor and will take a number of courses in the academic areas of interest and will also complete a research project in the area of interest.

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### 5.11.3.3 Kinesiology and Physical Education Admission Requirements and Application Procedures

#### 5.11.3.3.1 Admission Requirements

1. An undergraduate degree in Physical and Health Education, Exercise Science, Kinesiology, or its equivalent is required.
2. A minimum academic standing equivalent to a CGPA of 3.0 out of 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.
5.11.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

5.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Kinesiology and Physical Education and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete application are considered only as time and space permit.

5.11.3.4 Kinesiology and Physical Education Faculty

Chair
Julie Côté

Director of Undergraduate Programs
Gordon Bloom

Graduate Program Director
David Pearsall

Emeritus Professor
Greg Reid; B.Ed.(McG.), M.S.(Calif.), Ph.D.(Penn. St.)

Professors
Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple)
Gordon Bloom; B.Ed.(Western), M.A.(York), Ph.D.(Ott.)
Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)
Dilson Rassier; B.P.E.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)

Associate Professors
Julie Côté; B.Sc., M.Sc.(Wisc.-Madison), Ph.D.(Montr.)
William Harvey; B.Ed., M.A., Ph.D.(McG.)
Dennis Jensen; B.P.E.(Brock), M.Sc., Ph.D.(Qu.)
David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)

Assistant Professors
Lindsay Duncan; B.A., M.A., Ph.D.(Western)
Tyler Churchward-Venne; B.A.(Hons.)York), M.Sc.(Western), Ph.D.(McM.)
Jordan Koch; B.A.(W. Ott), M.Sc.(Calg.), Ph.D.(Alta.)
Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)
Lee Schaefer; B.Ed.(Regina), M.Ed., Ph.D.(Alta.)
**Assistant Professors**

Shane Sweet; B.A., Ph.D.(Ott.)
Charlotte Usselman; B.Sc.(Hons.)(Brock), M.Sc., Ph.D.(Western)

**Faculty Lecturer**

Celena Scheede-Bergdahl; B.Sc.(C’dia), M.Sc.(Montr.), Ph.D.(Copen.)

**Adjunct Professors**

Lymperis Koziris; M.A.(McG.), Ph.D.(Penn. St.)
Ruddy Richard; M.D.(Strasbourg I), Ph.D.(Paris V)
Catherine M. Sabiston; B.Sc.K.(Dal.), M.H.K.(Windsor), Ph.D.(Br. Col.)

**Associate Members**

Susan Bartlett; B.A.(Conc.), M.Ed.(McG.), Ph.D.(Syrac.)
Jean Bourbeau; M.D.(Laval)
Jose Morais; M.D.(Montr.)
Shawn Robbins; M.Sc., Ph.D.(Western)
Benjamin Smith; M.D., Ph.D.(McG.)
Timothy H. Wideman; Ph.D.(McG.)

**5.11.3.5 Master of Arts (M.A.) Kinesiology and Physical Education (Thesis) (45 credits)**

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 691</td>
<td>(6)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>EDKP 692</td>
<td>(6)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>EDKP 693</td>
<td>(6)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>EDKP 694</td>
<td>(6)</td>
<td>Thesis Research 4</td>
</tr>
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</table>

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 605</td>
<td>(3)</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>EDKP 617</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 1</td>
</tr>
<tr>
<td>EDKP 618</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 2</td>
</tr>
<tr>
<td>EDKP 619</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 3</td>
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<tr>
<td>EDKP 620</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 4</td>
</tr>
<tr>
<td>EDPE 676</td>
<td>(3)</td>
<td>Intermediate Statistics</td>
</tr>
</tbody>
</table>

**Complementary Courses (15 credits)**

Students must take a minimum of 9 credits of coursework in a classroom setting in the area of concentration selected in consultation with the Graduate Student Adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 504</td>
<td>(3)</td>
<td>Health &amp; Lifestyle Education</td>
</tr>
<tr>
<td>EDKP 548</td>
<td>(3)</td>
<td>Applied Exercise Psychology</td>
</tr>
<tr>
<td>EDKP 603</td>
<td>(6)</td>
<td>Individual Reading Course 1</td>
</tr>
<tr>
<td>EDKP 616</td>
<td>(3)</td>
<td>Individual Reading Course 2</td>
</tr>
<tr>
<td>EDKP 650</td>
<td>(3)</td>
<td>Research in Physical Education Pedagogy</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>EDKP 654</td>
<td>(3)</td>
<td>Sport Psychology</td>
</tr>
<tr>
<td>EDKP 655</td>
<td>(3)</td>
<td>Inclusive Physical Activity</td>
</tr>
<tr>
<td>EDKP 664</td>
<td>(3)</td>
<td>Motor Learning</td>
</tr>
<tr>
<td>EDKP 665</td>
<td>(3)</td>
<td>Motor Behaviour and Disability</td>
</tr>
<tr>
<td>EDKP 671</td>
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<td>Experimental Problems</td>
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<td>(6)</td>
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</tr>
<tr>
<td>EDKP 696</td>
<td>(3)</td>
<td>Thesis Research 6</td>
</tr>
</tbody>
</table>

Students may also take courses from the Faculty of Education or the Faculty of Arts in consultation with an adviser (500, 600, or 700 level).

### 5.11.3.6 Master of Science (M.Sc.) Kinesiology and Physical Education (Thesis) (45 credits)

**Areas:** Biomechanics, Exercise Physiology, and Motor Control and Learning

#### Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 691</td>
<td>(6)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>EDKP 692</td>
<td>(6)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>EDKP 693</td>
<td>(6)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>EDKP 694</td>
<td>(6)</td>
<td>Thesis Research 4</td>
</tr>
</tbody>
</table>

#### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 605</td>
<td>(3)</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>EDKP 617</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 1</td>
</tr>
<tr>
<td>EDKP 618</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 2</td>
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<tr>
<td>EDKP 619</td>
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<td>Seminar in Kinesiology and Physical Education 3</td>
</tr>
<tr>
<td>EDKP 620</td>
<td>(0)</td>
<td>Seminar in Kinesiology and Physical Education 4</td>
</tr>
<tr>
<td>EDPE 676</td>
<td>(3)</td>
<td>Intermediate Statistics</td>
</tr>
</tbody>
</table>

#### Complementary Courses (15 credits)

Students must take a minimum of 9 credits of coursework in a classroom setting in the area of concentration selected in consultation with the Graduate Student Adviser.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 542</td>
<td>(3)</td>
<td>Environmental Exercise Physiology</td>
</tr>
<tr>
<td>EDKP 548</td>
<td>(3)</td>
<td>Applied Exercise Psychology</td>
</tr>
<tr>
<td>EDKP 566</td>
<td>(3)</td>
<td>Advanced Biomechanics Theory</td>
</tr>
<tr>
<td>EDKP 603</td>
<td>(6)</td>
<td>Individual Reading Course 1</td>
</tr>
<tr>
<td>EDKP 616</td>
<td>(3)</td>
<td>Individual Reading Course 2</td>
</tr>
<tr>
<td>EDKP 630</td>
<td>(3)</td>
<td>Human Walking Mechanics</td>
</tr>
<tr>
<td>EDKP 631</td>
<td>()</td>
<td>Qualitative Methods</td>
</tr>
<tr>
<td>EDKP 635</td>
<td>(3)</td>
<td>Modeling Human Movement</td>
</tr>
<tr>
<td>EDKP 640</td>
<td>(3)</td>
<td>Advanced Ergonomics</td>
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<tr>
<td>EDKP 652</td>
<td>(3)</td>
<td>Cardio-Respiratory Exercise Physiology</td>
</tr>
<tr>
<td>EDKP 662</td>
<td>(3)</td>
<td>Nerve/Muscle Exercise Response</td>
</tr>
<tr>
<td>EDKP 664</td>
<td>(3)</td>
<td>Motor Learning</td>
</tr>
</tbody>
</table>
Students may also take courses from the Faculty of Science chosen in consultation with the adviser (500, 600, or 700 level).

### 5.11.3.7 Master of Arts (M.A.) Kinesiology and Physical Education (Non-Thesis) (45 credits)

**This program is currently not offered.**

Areas: Adapted Physical Activity, Pedagogy, and Sport and Exercise Psychology

#### Research Project (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 608</td>
<td>15</td>
<td>Special Project</td>
</tr>
</tbody>
</table>

#### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 617</td>
<td>0</td>
<td>Seminar in Kinesiology and Physical Education 1</td>
</tr>
<tr>
<td>EDKP 618</td>
<td>0</td>
<td>Seminar in Kinesiology and Physical Education 2</td>
</tr>
<tr>
<td>EDKP 619</td>
<td>0</td>
<td>Seminar in Kinesiology and Physical Education 3</td>
</tr>
<tr>
<td>EDKP 620</td>
<td>0</td>
<td>Seminar in Kinesiology and Physical Education 4</td>
</tr>
</tbody>
</table>

#### Complementary Courses (18 credits)

6 credits, two courses from the following:

Note: Students take either EDSL 630 or EDEM 692.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 692</td>
<td>3</td>
<td>Qualitative Research Methods</td>
</tr>
<tr>
<td>EDKP 605</td>
<td>3</td>
<td>Research Methods 1</td>
</tr>
<tr>
<td>EDPE 575</td>
<td>3</td>
<td>Statistics for Practitioners</td>
</tr>
<tr>
<td>EDSL 630</td>
<td>3</td>
<td>Qualitative/Ethnographic Methods</td>
</tr>
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</table>

12 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 504</td>
<td>3</td>
<td>Health &amp; Lifestyle Education</td>
</tr>
<tr>
<td>EDKP 548</td>
<td>3</td>
<td>Applied Exercise Psychology</td>
</tr>
<tr>
<td>EDKP 603</td>
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</tr>
<tr>
<td>EDKP 616</td>
<td>3</td>
<td>Individual Reading Course 2</td>
</tr>
<tr>
<td>EDKP 631</td>
<td>0</td>
<td>Qualitative Methods</td>
</tr>
<tr>
<td>EDKP 650</td>
<td>3</td>
<td>Research in Physical Education Pedagogy</td>
</tr>
<tr>
<td>EDKP 654</td>
<td>3</td>
<td>Sport Psychology</td>
</tr>
<tr>
<td>EDKP 655</td>
<td>3</td>
<td>Inclusive Physical Activity</td>
</tr>
<tr>
<td>EDKP 664</td>
<td>3</td>
<td>Motor Learning</td>
</tr>
<tr>
<td>EDKP 665</td>
<td>3</td>
<td>Motor Behaviour and Disability</td>
</tr>
<tr>
<td>EDKP 671</td>
<td>3</td>
<td>Experimental Problems</td>
</tr>
<tr>
<td>EDKP 672</td>
<td>6</td>
<td>Advanced Experimental Problems</td>
</tr>
</tbody>
</table>
Students may also take courses from the Faculty of Education or the Faculty of Arts in consultation with an adviser (500, 600, or 700 level).

**Elective Courses (12 credits)**
12 credits (normally four courses) chosen in consultation with an adviser (should be 500, 600, or 700 level).

**5.11.3.8 Master of Science (M.Sc.) Kinesiology and Physical Education (Non-Thesis) (45 credits)**

**This program is currently not offered.**

Areas: Biomechanics, Exercise Physiology, and Motor Control and Learning

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 608</td>
<td>15</td>
<td>Special Project</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
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</tr>
<tr>
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<td>0</td>
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</tr>
<tr>
<td>EDKP 620</td>
<td>0</td>
<td>Seminar in Kinesiology and Physical Education 4</td>
</tr>
</tbody>
</table>

**Complementary Courses (18 credits)**

6 credits, two courses from the following:

Note: Students may take either EDSL 630 or EDEM 692.

<table>
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</tr>
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<td>EDEM 692</td>
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<td>EDPE 575</td>
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<tr>
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<td>3</td>
<td>Qualitative/Ethnographic Methods</td>
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</tbody>
</table>

12 credits chosen from the following:

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<thead>
<tr>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDKP 542</td>
<td>3</td>
<td>Environmental Exercise Physiology</td>
</tr>
<tr>
<td>EDKP 548</td>
<td>3</td>
<td>Applied Exercise Psychology</td>
</tr>
<tr>
<td>EDKP 566</td>
<td>3</td>
<td>Advanced Biomechanics Theory</td>
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<tr>
<td>EDKP 603</td>
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Students may also take courses from the Faculty of Science in consultation with an adviser.
Elective Courses (12 credits)
12 credits (normally four courses) chosen in consultation with an adviser (should be 500, 600, or 700 level).

6 Faculty of Engineering

6.1 Dean’s Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

6.2 Graduate and Postdoctoral Studies

6.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pyllkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

6.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

6.2.3 Graduate and Postdoctoral Studies’ Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.
6.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

6.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

6.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

6.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

6.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

6.8 Postdoctoral Research

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

6.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).
6.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status

i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.
x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:
   • to verify the Postdoc’s eligibility period for registration;
   • to provide Postdocs with departmental policy and procedures that pertain to them;
   • to oversee the registration and appointment of Postdocs;
   • to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
   • to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
   • to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
   • to include Postdocs in departmental career and placement opportunities;
   • to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:
   • to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
   • to provide research guidance;
   • to meet regularly with their Postdocs;
   • to provide feedback on research submitted by the Postdocs;
   • to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
   • to provide mentorship for career development;
   • to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
   • to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
   • to submit a complete file for registration to Enrolment Services;
   • to sign and adhere to their Letter of Agreement for Postdoctoral Education;
   • to communicate regularly with their supervisor;
   • to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:
   • to register Postdocs;
   • to provide an appeal mechanism in cases of conflict;
   • to provide documented policies and procedures to Postdocs;
   • to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

6.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

6.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs.
on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at [www.mcgill.ca/gps/funding/getting-paid](http://www.mcgill.ca/gps/funding/getting-paid) under "Leave Policies and Form."

### 6.8.5 Postdoctoral Research Trainees

**Eligibility**

If your situation does not conform to the Government of Quebec's definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

**Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

**Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

**Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfils criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

### 6.9 Graduate Studies Guidelines and Policies

Refer to [University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies](http://www.mcgill.ca) for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

### 6.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to [University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees](http://www.mcgill.ca) for information on the following:
6.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

6.11.1 Architecture

6.11.1.1 Location

Peter Guo-hua Fu School of Architecture
Macdonald-Harrington Building
815 Sherbrooke Street West
Montreal QC H3A 0C2
Canada
Telephone: 514-398-6700
Fax: 514-398-7372
Website: www.mcgill.ca/architecture

6.11.1.2 About Peter Guo-hua Fu School of Architecture

M.Arch. (Professional) (Non-Thesis), M.Arch. (Post-professional) (Non-Thesis), Ph.D.

The Peter Guo-hua Fu School of Architecture at McGill University offers a professional Master of Architecture program, a post-professional Master of Architecture program, and a Ph.D. program.

The M.Arch. (Professional) requires the equivalency of the B.Sc. (Architecture) degree for admittance. There are two options for the completion of this Canadian Architectural Certification Board (CACB)-accredited degree:

- Design Studio (45 credits)
- Design Studio Directed Research (60 credits)

The M.Arch. (Professional) program is accredited by the CACB and is recognized as accredited by the National Council of Architectural Registration Boards (NCARB) in the U.S.

The M.Arch. (Post-professional) and the Ph.D. programs are for study beyond the professional degree in architecture. These programs have been conceived to respond to the needs of graduates with some professional experience who wish to acquire more specialized knowledge in architecture. The M.Arch. (Post-professional) program reflects a McGill tradition of academic inquiry and research, and provides an opportunity for a select number of students and staff to work together. The program is organized in such a way as to meet the needs of the professional practitioner and the researcher, and is intended to extend traditional architectural education as well as address new issues.

There are two areas of study in the M.Arch. (Post-professional) and Ph.D. programs:

- Architectural History and Theory
- Urban Design and Housing

Information concerning the duration of programs, documents required of applicants, etc., may be obtained at www.mcgill.ca/architecture.

Architectural Certification in Canada

In Canada, all provincial associations recommend a degree from an accredited professional degree program as a prerequisite for licensure. The CACB, which is the sole agency authorized to accredit Canadian professional degree programs in architecture, recognizes two types of accredited degrees: the Bachelor
of Architecture and the Master of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master’s degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Since all provincial associations in Canada recommend any applicant for licensure to have graduated from a CACB-accredited program, obtaining such a degree is an essential aspect of preparing for the professional practice of architecture. While graduation from a CACB-accredited program does not assure registration, the accrediting process is intended to verify that each accredited program substantially meets those standards that, as a whole, comprise an appropriate education for an architect.

Please note that the M.Arch. (Post-professional) degree is not a professional degree and does not satisfy the requirements for certification with the CACB.

Professional Programs

There are two options for the completion of this CACB-accredited degree:

section 6.11.1.5: Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio (45 credits)

The Design Studio concentration is a three-term (Fall, Winter, and Fall) program based on a design-intensive professional curriculum and centred on the design studio. Students work in a traditional studio format for the first two terms and on a terminal design project in the third (Fall) term. Complementary and elective course offerings are organized to provide flexibility in individual program design and create opportunities for students to both explore the discipline and focus on subject areas related to research and design interests. This option is a three-term consecutive degree (Fall, Winter, Fall) requiring full-time residence for one calendar year.

For further information regarding admission eligibility and requirements, please see: www.mcgill.ca/architecture/programs/professional.

section 6.11.1.6: Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio-Directed Research (60 credits)

The Design Studio Directed Research concentration is a four-term (Fall, Winter, Summer, Fall) program that complements the regular three-term concentration with a supervised individual research report in the Summer term. This forms the basis of the terminal design studio in the fourth (Fall) term. Each student is assigned a faculty adviser in the second term and follows a research-intensive curriculum shaped by complementary and elective courses chosen in consultation with, and approved by, the adviser.

For further information regarding admission eligibility and requirements, please see: www.mcgill.ca/architecture/programs/professional.

Post-Professional Programs

The Post-professional master’s programs are open to applicants who have a professional degree in architecture. Students holding the McGill B.Arch. (former) or M.Arch. (Professional) (current) degree, or an equivalent professional qualification, with a CGPA of at least 3.0 on a 4.0-point scale, are eligible for admission to the post-professional programs. In special cases, applicants with a degree in a related field may be considered.

The primary requirement for the M.Arch. (Post-professional) degree is coursework to be completed in the first two terms, and a research report (depending on the particular area of study requirements) that is completed during the summer. The residence requirement for the M.Arch. (Post-professional) degree is three academic terms (September to December; January to April; May to August), making it possible for students to obtain their degree after 12 calendar months in the program.

section 6.11.1.7: Master of Architecture (M.Arch.) Post-professional (Non-Thesis): Architectural History & Theory (45 credits)

Teaching and research in the History and Theory of Architecture program concentrates on the exploration and understanding of the complex connections between history, theory, design, and interdisciplinary concerns, particularly in the areas of philosophy and epistemology. This option is concerned with the reconciliation of ethics and poetics in architectural practice.

The master’s curriculum, which in most cases is also a required foundation year for a Ph.D. in the field, is simple in terms of course requirements, but demanding in terms of personal commitment to reading and writing. It is particularly suited to students with a professional background in architecture who want to explore and understand the complex connections between history, theory, and design. A thorough understanding of architecture as a cultural phenomenon, leading to a more serious definition of its true essence as it appears in history, is now regarded as crucial by practitioners and teachers who wish to come to terms with the present predicaments of architecture vis-à-vis the contradictions of the contemporary world.

section 6.11.1.8: Master of Architecture (M.Arch.) Post-professional (Non-Thesis) Urban Design and Housing (45 credits)

The UDH program enables students who have already completed a professional degree in Architecture to develop specialised skills for contemporary practice in housing, urban design, and the management of human settlements. The 12-month program comprises three consecutive terms of coursework. Intensive seminars held during the first two terms focus on contemporary theory and research methods in urban design and housing. Students take ARCH 603 (Urban Design and Housing Studio) as an applied synthesis of the material discussed in the two core seminars. Complementary coursework rounds out the fall and winter terms along with ARCH 623 (Project Preparation), in which students develop the strategy for a major independent project (ARCH 632, Urban Design and Housing Research Report) to be completed in the summer term.

Ph.D. in Architecture
section 6.11.9: Doctor of Philosophy (Ph.D.) Architecture

Our Ph.D. is a research-based degree, with a primary requirement of an original thesis that makes a substantial contribution to knowledge in the field of architecture. The minimum residence requirement is three years. Every year only a few students are accepted into the Ph.D. program, which means that all incoming Ph.D. candidates compete for a place as Ph.D. 2 students. The most qualified students enter into their first research seminar in September.

Doctoral candidates must have their thesis proposal (ARCH 700) approved by their advisor before embarking on their research. A Thesis Advisory Committee is then struck and is responsible for monitoring the student's research. For course ARCH 701, a comprehensive research proposal is required, as well as a demonstration of broad knowledge in the field. Candidates will submit two further reports in formal meetings with the Advisory Committee, who will review the work in progress (ARCH 702 and ARCH 703). The final meeting takes place after the Committee has reviewed the full draft of the dissertation. If approved, the dissertation will then be submitted in its final form to the Thesis Office. Acceptance of the thesis by the examiners is followed by an oral defence.

6.11.1.3 Architecture Admission Requirements and Application Procedures

6.11.1.3.1 Admission Requirements

M.Arch. (Professional) Program (Non-Thesis)

Applicants holding the McGill B.Sc.(Arch.) degree, or equivalent, with a cumulative grade point average (CGPA) of at least 3.0 on a scale of 4.0, are eligible to apply for admission.

M.Arch. (Post-professional) (Non-Thesis)

Applicants holding an accredited professional degree in architecture, or equivalent, with a cumulative grade point average (CGPA) of at least 3.0 on a scale of 4.0, are eligible to apply for admission. In special cases, candidates with a degree in a related field may be considered.

Ph.D.

Candidates with high standing in McGill’s M.Arch. (Post-professional), or who hold an equivalent degree from another university, are eligible to apply to this program. Those who do not have an appropriate background in the chosen research area may be recommended for the M.Arch. (Post-professional) program. Candidates who have an adequate background at the post-professional master’s level in the proposed area of research will be admitted to Ph.D. 2 with the stipulation of additional courses from the M.Arch. (Post-professional) curriculum, if necessary.

A working knowledge of a language or languages relevant to the area of research is required.

6.11.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

6.11.1.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

Professional Master of Architecture:

- Summary of work experience. A minimum of 16 weeks of work experience is required. Further information and guidelines are provided at www.mcgill.ca/architecture/programs/professional/workexperience. Please use the following: Work Experience Form [.pdf]*
  <b>Note:</b> Your employer’s signature is required along with the company business card. We do NOT require the Director’s signature.

- Curriculum Vitae

- Applicants are required to upload unofficial transcripts of all universities previously attended (including summer term, exchange term, or study-away term). If you are recommended for admission, you will later be required to supply official transcripts. Transcripts in languages other than English or French must be accompanied by an English or French translation provided by the institution issuing the transcript or by a certified translator. Please refer to www.mcgill.ca/gradapplicants/apply/ready/submit/upload and www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents.

- A total of two (2) confidential letters of reference are required for your application: two (2) from academics OR one (1) from an academic and one (1) from a recent employer. Once you have identified your referees (you must provide a valid institutional email address for each referee), McGill will send them an email asking for a reference in support of your application (Gmail, Yahoo, etc. domains cannot be accepted). Additionally, uploaded letters must be on university or company/business stationery and the referee must indicate his/her position and full contact information at the institution. Please refer to www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents.

- Once accepted to the M.Arch. (Professional) program (Design Studio [DST]), students interested in the Design Studio-Directed Research option will need to provide a two-page (maximum) research statement in early Fall of the first term indicating their general area of interest, their understanding of this area of study, faculty expertise, and research intention in terms of topic and project-based investigation. Specific references to expertise within the School are encouraged (e.g., History and Theory of Architecture; Cultural Landscape Studies; Affordable and Sustainable Housing; Computation and Fabrication; High-performance Visualization; Minimum Cost Housing; Gender, Sexuality and Space; Design and Health; Urban Design; Landscape Urbanism; Architectural Representation; Urban Agriculture; Vernacular Architecture; Reurbanisation).
  <b>Note:</b> Applicants to the M.Arch.(Professional) Design Studio option do not need to provide a research statement.
• Completed Program Comparison Chart*
  
  *These documents are available in PDF or DOC format on the Peter Guo-hua Fu School of Architecture website.

• Course calendar descriptions of previous college and/or university studies must be submitted in addition to the Program Comparison Chart.

  *Note: Not required by B.Sc.(Arch.) graduates from McGill University.

• A comprehensive e-portfolio (pdf format, max. 15 MB, due no later than January 15) that may include the following: selected work from all previous design studios; examples of project work from other courses; examples of freehand drawing and sketching; examples of professional work: sketches, drawings, images of models, photographs of built work (professional work includes work carried out while employed in architects' offices, as well as personal projects; please identify the architect(s) and your own roles in each project illustrated).

  *Note: Please indicate, where applicable, if a project is an individual or group project.

Post-professional programs:
M.Arch. (Post-professional) and Ph.D.

• Curriculum Vitae

• Applicants are required to upload unofficial transcripts of all universities previously attended. If you are recommended for admission you will later be required to supply official transcripts. Transcripts in languages other than English or French must be accompanied by an English or French translation provided by the institution issuing the transcript or by a certified translator. Please refer to www.mcgill.ca/gradapplicants/apply/ready/submit/upload and www.mcgill.ca/gradapplicants/apply/prep/checklist/documents.

• Two confidential letters of reference are required for your application. Once you have identified your referees (you must provide a valid institutional email address for each referee), McGill will send them an email asking for a reference in support of your application. (Gmail, Yahoo, etc. domains cannot be accepted). Additionally, uploaded letters must be on university or company/business stationery and the referee must indicate his/her position and full contact information at the institution. Please refer to www.mcgill.ca/gradapplicants/apply/prep/checklist/documents.

• Statement of research interest / Post-professional M.Arch. applicants: a one-page statement of research objectives indicating the option chosen and the reasons for that choice. Applicants should include a clear description of their research interest, as well as a brief explanation of why they wish to study at McGill University’s Peter Guo-hua Fu School of Architecture. Applicants to the Post-professional M.Arch. program are strongly encouraged to become familiar with the research interests of the faculty before submitting an application and may indicate a preference for an adviser. If no preference is indicated, an adviser will be assigned prior to Fall registration. OR, Research proposal / Ph.D. applicants: a four-page research proposal, as well as a detailed explanation of why and with whom they wish to study at McGill University’s Peter Guo-hua Fu School of Architecture.

• A digital portfolio (PDF format) of not more than 15 MB must be submitted containing at least five examples of the applicant’s work. Doctoral applicants should submit evidence of research accomplishments, which could, in some cases, replace the portfolio requirement.

• Writing sample (Post-professional M.Arch. applicants): a recent sample of the applicant’s written work, on any topic (not necessarily within the desired field of graduate study) and not necessarily previously submitted for evaluation or publication. OR, Written work (Ph.D. applicants): a sample of the applicant’s written work, drawn from essays, papers, or other work previously submitted for academic evaluation or publication, and falling within the desired field of graduate study.

• Proof of English language proficiency: Applicants to graduate studies whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. An institutional version of the TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available. For the TOEFL, a minimum overall score of 86 is required on the Internet-based test (iBT; 567 on the paper-based test (PBT)), with each component score (i.e., reading, writing, speaking, listening) not less than 20. (The TOEFL Institution Code for McGill University is 0935.) For the IELTS, a minimum overall band score of 6.5 is required. For further information, please refer to www.mcgill.ca/gradapplicants/international/apply/proficiency.

6.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Peter Guo-hua Fu School of Architecture and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
</tbody>
</table>
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

*Note:* Applications for Summer term admission will not be considered.

### 6.11.1.4 Architecture Faculty

**Director**

Martin Bressani

**Graduate Program Directors**

Robert Mellin (*Post-professional program*)

David Covo (*Professional program*)

**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.Q., O.A.A. (*William C. Macdonald Emeritus Professor of Architecture*)

Adrian Sheppard; B.Arch.(McG.), M.Arch.(Yale), A.A.P.P.Q., F.R.A.I.C., O.A.Q.

Radoslav Zuk; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(U.A.A.), F.R.A.I.C., O.A.Q., O.A.A.

**Professors**

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*Stevenson Chair in the History and Philosophy of Science*)


Martin Bressani; B.Sc.(Arch.), B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris IV), O.A.Q. (*William C. Macdonald Professor of Architecture*)

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.


**Associate Professors**

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.


Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.), M.C.I.P.

Robert Mellin; B.Arch., M.Sc.(Arch.)(Penn.), M.Arch.(McG.), M.Sc., Ph.D.(Penn.), F.R.A.I.C., N.A.A.

**Assistant Professors**

Salmaan Craig; B.Sc., Eng.D.(Brunel)

David Theodore; B.A., B.Sc.(Arch.), B.Arch., M.Arch.(McG.), Ph.D.(Harv.)

Ipek Türeli; B.Arch.(Istanbul), A.A.Dipl.(A.A.), Ph.D.(Calif., Berk.)

Theodora Vardouli; Dipl.Arch.Eng., M.Sc.(Athens), S.M.Arch.S.(MIT)

**Clifford C. F. Wong Professor of Practice**

Howard Davies

**Professor of Practice**

Peter Guo-hua Fu
Adjunct Professors
Julia Gersovitz, Andrew King, Conor Sampson

Course Lecturers
Vedanta Balbahadur, Erika Brandl-Mouton, Clothilde Caillé-Levesque, Morgan Carter, Ricardo L. Castro, Laurie Damme Gonneville, Tania Delage, Nancy Dunton, Scott Francisco, Fabrizio Gallanti, Marc Hallé, Edward Houle, Laurent Laframboise, Sybil McKenna, Hubert Pelletier, Marc-André Plourde, François Sabourin, Gilles Saucier, Pieter Sijpkes, Angela Silver

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 in 2017:
François Abbott, Caroline Andrieux, Lucie Babin, Tom Balaban, Jean-Philippe Beauchamp, Catherine Bonnier, Keviin Botchar, Sinisha Brdar, David Brown, Georges Bulette, Dale Byrnes, Joe Carter, Aziza Chaouni, Cameron Charlebois, Azad Chichmanian, Henri Clienge, Trevor Davies, Maria Davila, Ioannis Dedes, Aliki Economides, Tom Egli, Raphael Fischler, Jim Fyles, Anja Geitmann, Florence Génèviève, Alexandre Hamelyn, Colin Hanley, Dave Harlander, Susane Havelka, Laurie Hawkinson, Paul Holmgist, Sonia Kohut, Veronica Lalli, Tamir Lavie, Gabriel Légaré, Ricardo Leoto, Claire Labell, Christopher Macdonald, Jeff Ma, Eric Marosi, Cécile Martin, Paul Meldrum, Shawn Moscovitch, Gonzalo Muñoz, David Newton, Son Nguyen, Gina Page, Danny Pearl, Jérôme Picard, Alessandra Ponte, Mireille Roddier, Lia Ruccolo, Simon Roy, Brigitte Samson, Ange Sauvage, Peter Sealy, Tom Shaked, Aaron Sprecher, Marian Stiel, Quan Tai, Rebecca Taylor, Georges Teysot, Marilyne Tremblay, Jason Tsironis, Dustin Valen, Giacomo Valzania, Ben Wareing, Ron Williams, Jozef Zorko

6.11.1.5 Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio (45 credits)
This concentration is a 45-credit, three-term (Fall, Winter, and Fall) program based on a design-intensive professional curriculum and centred on the design studio. Students work in a traditional studio format for the first two terms and with individual advisers in the terminal design project course in the third (Fall) term. Complementary and elective courses are organized to provide flexibility in individual program design and create opportunities to both explore the discipline and focus on subject areas related to research and design interests.

Required Courses (32 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARCH 551</td>
<td>3</td>
<td>Urban Design and Planning</td>
</tr>
<tr>
<td>ARCH 672</td>
<td>6</td>
<td>Architectural Design 1</td>
</tr>
<tr>
<td>ARCH 673</td>
<td>6</td>
<td>Architectural Design 2</td>
</tr>
<tr>
<td>ARCH 674</td>
<td>3</td>
<td>Professional Practice 1</td>
</tr>
<tr>
<td>ARCH 677</td>
<td>9</td>
<td>Architectural Design 3</td>
</tr>
<tr>
<td>ARCH 678</td>
<td>3</td>
<td>Advanced Construction</td>
</tr>
<tr>
<td>ARCH 680</td>
<td>2</td>
<td>Field Sketching</td>
</tr>
</tbody>
</table>

Complementary Courses
10-13 credits selected as follows:

Group A:
3-13 credits chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 523</td>
<td>3</td>
<td>Significant Texts and Buildings</td>
</tr>
<tr>
<td>ARCH 525</td>
<td>3</td>
<td>Seminar on Analysis and Theory</td>
</tr>
<tr>
<td>ARCH 531</td>
<td>3</td>
<td>Architectural Intentions Vitruvius - Renaissance</td>
</tr>
<tr>
<td>ARCH 532</td>
<td>3</td>
<td>Origins of Modern Architecture</td>
</tr>
<tr>
<td>ARCH 626</td>
<td>4</td>
<td>Critical Design Strategies</td>
</tr>
<tr>
<td>ARCH 684</td>
<td>4</td>
<td>Contemporary Theory 1</td>
</tr>
<tr>
<td>ARCH 685</td>
<td>4</td>
<td>Contemporary Theory 2</td>
</tr>
</tbody>
</table>

Group B:
0-10 credits chosen from the following courses:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 512</td>
<td>(3)</td>
<td>Architectural Modelling</td>
</tr>
<tr>
<td>ARCH 514</td>
<td>(4)</td>
<td>Community Design Workshop</td>
</tr>
<tr>
<td>ARCH 515</td>
<td>(3)</td>
<td>Sustainable Design</td>
</tr>
<tr>
<td>ARCH 520</td>
<td>(3)</td>
<td>Montreal: Urban Morphology</td>
</tr>
<tr>
<td>ARCH 521</td>
<td>(3)</td>
<td>Structure of Cities</td>
</tr>
<tr>
<td>ARCH 526</td>
<td>(3)</td>
<td>Philosophy of Structure</td>
</tr>
<tr>
<td>ARCH 527</td>
<td>(3)</td>
<td>Civic Design</td>
</tr>
<tr>
<td>ARCH 528</td>
<td>(3)</td>
<td>History of Housing</td>
</tr>
<tr>
<td>ARCH 529</td>
<td>(3)</td>
<td>Housing Theory</td>
</tr>
<tr>
<td>ARCH 533</td>
<td>(3)</td>
<td>New Approaches to Architectural History</td>
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<tr>
<td>ARCH 540</td>
<td>(3)</td>
<td>Selected Topics in Architecture 1</td>
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<tr>
<td>ARCH 541</td>
<td>(3)</td>
<td>Selected Topics in Architecture 2</td>
</tr>
<tr>
<td>ARCH 622</td>
<td>(4)</td>
<td>Critical Writing</td>
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<tr>
<td>ARCH 626</td>
<td>(4)</td>
<td>Critical Design Strategies</td>
</tr>
<tr>
<td>ARCH 679</td>
<td>(3)</td>
<td>Writing in Architecture</td>
</tr>
<tr>
<td>ARCH 684</td>
<td>(4)</td>
<td>Contemporary Theory 1</td>
</tr>
<tr>
<td>ARCH 685</td>
<td>(4)</td>
<td>Contemporary Theory 2</td>
</tr>
</tbody>
</table>

**Note:** Courses taken are to be used to fulfil one group only.

### Elective Courses

0-3 credits

Up to 3 credits (at the 500 or 600 level) may be taken outside the School of Architecture, with the approval of an assigned faculty adviser.

#### 6.11.1.6 Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio-Directed Research (60 credits)

The Directed Research concentration is a 60-credit four-term (Fall, Winter, Summer, Fall) program that complements the regular 45-credit three-term concentration with a supervised 12-credit individual research report in the summer term. This forms the basis of the terminal design studio in the fourth (Fall) term. Each student is assigned a faculty adviser in the second term and follows a research-intensive curriculum shaped by complementary and elective courses chosen in consultation with, and approved by, the adviser.

#### Required Courses (48 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 551</td>
<td>(3)</td>
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</tr>
<tr>
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<td>(4)</td>
<td>Critical Design Strategies</td>
</tr>
<tr>
<td>ARCH 672</td>
<td>(6)</td>
<td>Architectural Design 1</td>
</tr>
<tr>
<td>ARCH 673</td>
<td>(6)</td>
<td>Architectural Design 2</td>
</tr>
<tr>
<td>ARCH 674</td>
<td>(3)</td>
<td>Professional Practice 1</td>
</tr>
<tr>
<td>ARCH 676</td>
<td>(12)</td>
<td>Directed Research Report</td>
</tr>
<tr>
<td>ARCH 678</td>
<td>(3)</td>
<td>Advanced Construction</td>
</tr>
<tr>
<td>ARCH 680</td>
<td>(2)</td>
<td>Field Sketching</td>
</tr>
<tr>
<td>ARCH 683</td>
<td>(9)</td>
<td>Directed Research Project</td>
</tr>
</tbody>
</table>

#### Complementary Courses

(9-12 credits)

Group A:

3-12 credits chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 523</td>
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<td>Significant Texts and Buildings</td>
</tr>
</tbody>
</table>
ARCH 525 (3) Seminar on Analysis and Theory
ARCH 531 (3) Architectural Intentions Vitruvius - Renaissance
ARCH 532 (3) Origins of Modern Architecture
ARCH 562 (3) Innovative Homes and Communities
ARCH 602 (4) Housing Seminar
ARCH 604 (4) Urban Design Seminar
ARCH 684 (4) Contemporary Theory 1
ARCH 685 (4) Contemporary Theory 2

Group B:
0-9 credits chosen from the following courses:
ARCH 512 (3) Architectural Modelling
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 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 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 562 (3) Innovative Homes and Communities
ARCH 564 (3) Design for Development
ARCH 566 (3) Cultural Landscapes Seminar
ARCH 602 (4) Housing Seminar
ARCH 604 (4) Urban Design Seminar
ARCH 622 (4) Critical Writing
ARCH 627 (4) Research Methods for Architects
ARCH 679 (3) Writing in Architecture
ARCH 684 (4) Contemporary Theory 1
ARCH 685 (4) Contemporary Theory 2
ARCH 688 (3) Directed Research 1
ARCH 689 (3) Directed Research 2

Note: Courses taken are to be used to fulfil one group only.
Unless otherwise indicated, the above courses are restricted to students in the professional area.

**Elective Courses**
(0-3 credits)

Up to 3 credits (at the 500 or 600 level) may be taken outside the School of Architecture with the approval of an assigned faculty adviser.

**6.11.1.7 Master of Architecture (M.Arch.) Post-professional (Non-Thesis): Architectural History & Theory (45 credits)**

The history and theory program pursues intellectual inquiries in the history of architecture, focusing upon the discipline’s continually changing theoretical framework. It aims to advance knowledge and foster ethical reflections in architecture through critical historical research into the philosophical, political, cultural, and technological contexts of the discipline. The one-year, three semester program is suited to recent graduates of professional architecture programs and experienced practitioners who wish to explore the complex connections among history, theory, and design; it also provides a thorough preparation for the subsequent pursuit of a PhD degree in the history and theory of architecture. It is structured around core seminars and lectures on topics that range from the history of architecture, the history of science and technology in design, the influence of cultural and gender studies on the discipline, and aesthetic philosophy. The curriculum culminates with an individual research project defined by the student in consultations with advisers.

The History and Theory option within the M.Arch. post-professional program enables students who have completed their professional M.Arch. degree (or some closely-related degree) to develop critical skills and knowledge vis-a-vis architecture as a broad cultural phenomenon. The twelve-month program comprises three consecutive semesters of coursework. Required seminars held during the first two terms involve intensive commitment to reading and writing. The Fall and Winter terms are rounded out with one elective course and Project Preparation (ARCH 623), in which students develop the strategy for their major independent research or design undertaking, the History and Theory Project (ARCH 624), which is completed in the Summer term.

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 624</td>
<td>15</td>
<td>History and Theory Project</td>
</tr>
</tbody>
</table>

**Required Courses (27 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 622</td>
<td>4</td>
<td>Critical Writing</td>
</tr>
<tr>
<td>ARCH 623</td>
<td>3</td>
<td>Project Preparation</td>
</tr>
<tr>
<td>ARCH 651</td>
<td>6</td>
<td>Architectural History and Theory Seminar 1</td>
</tr>
<tr>
<td>ARCH 652</td>
<td>4</td>
<td>Architectural History and Theory Seminar 2</td>
</tr>
<tr>
<td>ARCH 653</td>
<td>4</td>
<td>Architectural History and Theory Seminar 3</td>
</tr>
<tr>
<td>ARCH 654</td>
<td>6</td>
<td>Architectural History and Theory Seminar 4</td>
</tr>
</tbody>
</table>

**Elective Course (3 credits)**

Any course at the 500- or 600-level, with the approval of the School.

**6.11.1.8 Master of Architecture (M.Arch.) Post-professional (Non-Thesis) Urban Design and Housing (45 credits)**

The Urban Design and Housing program enables students who have already completed their professional M.Arch. degree (or equivalent) to develop specialized skills for contemporary practice in housing, urban design, and the management of human settlements. The twelve-month program comprises three consecutive semesters of coursework. Intensive seminars held during the first two terms focus on contemporary theory and research methods in urban design and housing. Students take ARCH 603 Urban Design and Housing Studio as an applied synthesis of the material discussed in the two core seminars. Nine credits of complementary coursework round out the Fall and Winter terms along with ARCH 623 Project Preparation, in which students develop the strategy for a major independent project (ARCH 632 Urban Design and Housing Research Report) to be completed in the Summer term.

**Research Report (15 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 632</td>
<td>15</td>
<td>Urban Design and Housing Research Report</td>
</tr>
</tbody>
</table>

**Required Courses (18 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 602</td>
<td>3</td>
<td>Housing Seminar</td>
</tr>
<tr>
<td>ARCH 603</td>
<td>6</td>
<td>Urban Design and Housing Studio</td>
</tr>
<tr>
<td>ARCH 604</td>
<td>3</td>
<td>Urban Design Seminar</td>
</tr>
<tr>
<td>ARCH 623</td>
<td>3</td>
<td>Project Preparation</td>
</tr>
</tbody>
</table>
Research Methods for Architects

Complementary Courses (12 credits)
Group A
6-12 credits from the following:

- ARCH 514 (4) Community Design Workshop
- ARCH 517 (3) Sustainable Residential Development
- ARCH 520 (3) Montreal: Urban Morphology
- ARCH 521 (3) Structure of Cities
- ARCH 529 (3) Housing Theory
- ARCH 562 (3) Innovative Homes and Communities
- ARCH 564 (3) Design for Development
- ARCH 566 (3) Cultural Landscapes Seminar

Group B
0-6 credits from any courses at the 500 level or higher, approved by an adviser.

6.11.1.9 Doctor of Philosophy (Ph.D.) Architecture

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

- ARCH 700 (0) Dissertation Proposal
- ARCH 701 (0) Final Dissertation Proposal and Literature Review
- ARCH 702 (0) Dissertation Report 1
- ARCH 703 (0) Dissertation Report 2

6.11.2 Bioengineering

6.11.2.1 Location
Department of Bioengineering
McConnell Engineering Building, Room 350
3480 University Street
Montreal QC H3A 0E9
Telephone: 514-398-7254
Email: info.bioeng@mcgill.ca
Website: www.mcgill.ca/bioengineering

6.11.2.2 About Bioengineering
The Department of Bioengineering, established in 2012, is the newest department to join McGill University’s renowned Faculty of Engineering. McGill researchers from nearly all faculty units, including seven Canada Research Chairs and many colleagues in the Faculties of Medicine, Science, and Agricultural and Environmental Sciences, are actively involved in various areas of bioengineering. Within our Department, faculty members conduct research in three major fields:

- Biological materials and mechanics
Biomolecular and cellular engineering
Biomedical, diagnostics, and high throughput screening

6.11.2.3 Graduate Studies

Graduate study in Bioengineering is available through the Biological and Biomedical Engineering (BBME) graduate programs, offered jointly by the Department of Bioengineering (Faculty of Engineering) and the Department of Biomedical Engineering (Faculty of Medicine). Biological and Biomedical Engineering is a broad, interdisciplinary field that involves the application of engineering, the physical sciences, biological sciences, and computer science to medicine and the life sciences. McGill's BBME programs offer unsurpassed opportunities for multidisciplinary research with internationally-renowned scientists.

Please consult section 6.11.3: Biological and Biomedical Engineering and the Biological and Biomedical Engineering website for further information on this program.

6.11.2.4 Bioengineering Faculty

Chair
Dan V. Nicolau

Professors
Amine Kamen; Ph.D.(Mines ParisTech), Ph.D.(École Poly., Montr.)
Sebastian Wachsmann-Hogiu; Dipl.(Poly. Univ. Bucharest), Ph.D.(Humboldt)

Associate Professors
Georgios Mitsis; Dipl.(Nat. Tech., Athens), M.S.(Elect. Eng.), M.S.(Biomed. Eng.), Ph.D.(USC)
Yu (Brandon) Xia; B.Sc.(Peking), Ph.D.(Stan.)

Assistant Professors
Allen Ehrlicher; B.Sc., B.A.(Texas-Austin), M.Sc., Ph.D.(Leipzig)
Adam Hendricks; B.S., M.S.(Virg. Poly. Inst. & State Univ.), Ph.D.(Mich.)
J. Matt Kinsella; B.Sc.(SXU, Chicago), M.S., Ph.D.(Purd.)
Sara Mahshid; B.Sc. (IUST, Tehran), M.Sc., Ph.D.(SUT, Tehran)

6.11.3 Biological and Biomedical Engineering

6.11.3.1 Location
Duff Medical Building
3775 University Street, Room 316
Montreal QC H3A 2B4
Canada
Website: www.mcgill.ca/bbme

6.11.3.2 About Biological and Biomedical Engineering

The Biological and Biomedical Engineering (BBME) graduate program is an interfaculty program involving the Department of Bioengineering in the Faculty of Engineering and the Department of Biomedical Engineering in the Faculty of Medicine. The BBME interfaculty program builds on the excellence and high standard of its predecessor graduate program in Biomedical Engineering. This broader interfaculty restructuring supports the growing trend in research universities toward formalized interdisciplinary studies and multifaculty collaboration.

BBME students come from a wide range of backgrounds including engineering, physics, chemistry, biology, and dentistry, among others. The multicultural diversity of our student body is a strength of the program, as networking and collaborative opportunities are vast. Students in BBME have supervisors associated with the program whose home departments will be spread primarily across the Faculties of Engineering and Medicine.

As researchers in this field unravel the molecular and physiological mechanisms of biology, develop increasingly advanced technologies to transform healthcare, or attempt to reverse-engineer naturally occurring biological solutions, devices, and procedures, alumni of the BBME program are poised to play a critical role in shaping our global future.

Please consult our website for additional information.
Research Domains

Our faculty members are particularly active in research related to the development of quantitative analysis tools and instruments for biological and biomedical research. The ultimate goal is the pursuit of answers to biological and medical questions. Ongoing biological and biomedical engineering research at McGill includes:

- signal analysis, including brain (EEG), muscles (EMG), eyes (EOG), respiration, and mass spectrometry;
- systems analysis, including neuromuscular control, and oculomotor and vestibular control;
- experimental and computational biomechanics, including orthopedic and auditory mechanics;
- biomaterials, including artificial cells;
- medical imaging and image processing;
- micro and nanotechnology and biosensors;
- nanoparticles and cell imaging;
- bioinformatics and computational biology;
- computers in medical education, including interactive 3D models and haptics;
- biological materials and mechanics;
- biomolecular and cellular engineering, and regenerative medicine;
- biomedical, diagnostics, and high throughput screening engineering;
- mechanics of disease;
- tissue engineering, especially concerning 3D and nano-related biological microfluidics devices, such as fungi and cellular traffic;
- biological dynamic devices, from whole-organisms (e.g., bacteria) to nanodevices;
- information processing and storage in biological systems;
- systems and synthetic biology;
- cell mechanisms and the cytoskeleton;
- soft matter physics.

section 6.11.3.5: Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

The Biological and Biomedical Engineering Master’s program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes, including: biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, orthopedics, biological materials and mechanobiology, motor proteins and the cytoskeleton, biosensors and biological therapeutics, biological networks, and computational biology. BBME's internationally-renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals, and government and provide a solid basis for Ph.D. studies. Candidates should hold a Bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic biology (physiology, cell biology, or molecular biology).

For more information please consult www.mcgill.ca/bbme/prospective-students/masters-program.

section 6.11.3.6: Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The Biological and Biomedical Engineering doctoral program provides students with advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus on an area of choice while integrating quantitative concepts and engineering tools for the study of natural and life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her future career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. Through independent research and thesis writing, the program will prepare students for careers in academia, industry, hospitals, and government. Students who complete the program will obtain a doctor of philosophy in Biological and Biomedical Engineering. The best preparation for this program is a master's degree in BBME or a related discipline.

For more information please consult www.mcgill.ca/bbme/prospective-students/doctoral-program.

6.11.3.3 Biological and Biomedical Engineering Admission Requirements and Application Procedures

6.11.3.3.1 Admission Requirements

For up-to-date admission requirements, please consult www.mcgill.ca/bbme/prospective-students/how-apply and University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.2: Admission Requirements (Minimum Requirements to be Considered for Admission).
6.11.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Please address enquiries directly to info.bbme@mcgill.ca.

6.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Biological and Biomedical Engineering Graduate Program and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program. For additional information, please consult www.mcgill.ca/bbme/prospective-students/how-apply.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl.Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Summer term admission will not be considered.

6.11.3.4 Biological and Biomedical Engineering Faculty

Biological and Biomedical Engineering is an interfaculty program offered jointly by the Department of Bioengineering in the Faculty of Engineering and the Department of Biomedical Engineering in the Faculty of Medicine.

Please refer to section 6.11.2.4: Bioengineering Faculty and section 10.11.5.4: Biomedical Engineering Faculty for their respective faculty listings.

6.11.3.5 Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

** NEW PROGRAM **

The Biological and Biomedical Engineering (BBME) Master’s program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment, and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes in biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics. BBME’s internationally renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals and government and provide a solid basis for Ph.D. studies. Candidates should hold a bachelor’s degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic physiology or cell biology.

** Thesis Courses (24 credits) **

BBME 693 (6) Thesis Research 1
BBME 694 (6) Thesis Research 2
BBME 695 (12) Thesis Submission

** Required Courses (3 credits) **

BBME 600D1 (1.5) Seminars in Biological and Biomedical Engineering
BBME 600D2 (1.5) Seminars in Biological and Biomedical Engineering

OR
Seminars in Biological and Biomedical Engineering (1.5) BBME 600N1
Seminars in Biological and Biomedical Engineering (1.5) BBME 600N2

Complementary Courses (18 credits)

12 credits from BMDE or BIEN courses at the 500-level or higher core courses which may also include MDPH 607, of which the following must be included:

3 credits from the following quantitative courses, or other quantitative courses (at the 500-level or higher) approved by the Graduate Program Director.

- BIEN 510: Engineered Nanomaterials for Biomedical Applications
- BIEN 520: High Throughput Bioanalytical Devices
- BIEN 530: Imaging and Bioanalytical Instrumentation
- BIEN 550: Biomolecular Devices
- BIEN 560: Biosensors
- BIEN 570: Active Mechanics in Biology
- BIEN 590: Cell Culture Engineering
- BMDE 502: BME Modelling and Identification
- BMDE 503: Biomedical Instrumentation
- BMDE 509: Quantitative Analysis and Modelling of Cellular Processes
- BMDE 512: Finite-Element Modelling in Biomedical Engineering
- BMDE 519: Biomedical Signals and Systems
- BMDE 610: Functional Neuroimaging Fusion

6 credits from the list below or from other courses (at the 500-level or higher) which have both biomedical content and content from the physical sciences, engineering, or computer science, with the approval of the supervisor and Graduate Program Director.

- BIEN 510: Engineered Nanomaterials for Biomedical Applications
- BIEN 520: High Throughput Bioanalytical Devices
- BIEN 530: Imaging and Bioanalytical Instrumentation
- BIEN 550: Biomolecular Devices
- BIEN 560: Biosensors
- BIEN 570: Active Mechanics in Biology
- BIEN 590: Cell Culture Engineering
- BINF 511: Bioinformatics for Genomics
- BIOL 598: Advanced Design and Statistics
- BIOT 505: Selected Topics in Biotechnology
- BMDE 501: Selected Topics in Biomedical Engineering
- BMDE 502: BME Modelling and Identification
- BMDE 503: Biomedical Instrumentation
- BMDE 504: Biomaterials and Bioperformance
- BMDE 505: Cell and Tissue Engineering
- BMDE 506: Molecular Biology Techniques
- BMDE 508: Introduction to Micro and Nano-Bioengineering
- BMDE 509: Quantitative Analysis and Modelling of Cellular Processes
- BMDE 510: Topics in Astrobiology
- BMDE 512: Finite-Element Modelling in Biomedical Engineering
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 519</td>
<td>3</td>
<td>Biomedical Signals and Systems</td>
</tr>
<tr>
<td>BMDE 610</td>
<td>3</td>
<td>Functional Neuroimaging Fusion</td>
</tr>
<tr>
<td>BMDE 625D1</td>
<td>3</td>
<td>Design of Assistive Technologies: Principles and Praxis</td>
</tr>
<tr>
<td>BMDE 625D2</td>
<td>3</td>
<td>Design of Assistive Technologies: Principles and Praxis</td>
</tr>
<tr>
<td>BMDE 650</td>
<td>3</td>
<td>Advanced Medical Imaging</td>
</tr>
<tr>
<td>BMDE 651</td>
<td>3</td>
<td>Orthopaedic Engineering</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BMDE 653</td>
<td>3</td>
<td>Patents in Biomedical Engineering</td>
</tr>
<tr>
<td>BMDE 655</td>
<td>3</td>
<td>Biomedical Clinical Trials - Medical Devices</td>
</tr>
<tr>
<td>CHEE 561</td>
<td>3</td>
<td>Introduction to Soft Tissue Biophysics</td>
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<tr>
<td>CHEE 563</td>
<td>3</td>
<td>Biofluids and Cardiovascular Mechanics</td>
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<tr>
<td>CHEE 651</td>
<td>4</td>
<td>Advanced Biochemical Engineering</td>
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<tr>
<td>CHEM 571</td>
<td>3</td>
<td>Polymer Synthesis</td>
</tr>
<tr>
<td>COMP 526</td>
<td>3</td>
<td>Probabilistic Reasoning and AI</td>
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<tr>
<td>COMP 546</td>
<td>4</td>
<td>Computational Perception</td>
</tr>
<tr>
<td>COMP 551</td>
<td>4</td>
<td>Applied Machine Learning</td>
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<tr>
<td>COMP 558</td>
<td>3</td>
<td>Fundamentals of Computer Vision</td>
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<tr>
<td>COMP 652</td>
<td>4</td>
<td>Machine Learning</td>
</tr>
<tr>
<td>COMP 761</td>
<td>4</td>
<td>Advanced Topics Theory 2</td>
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<tr>
<td>DENT 669</td>
<td>3</td>
<td>Extracellular Matrix Biology</td>
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<tr>
<td>ECSE 526</td>
<td>3</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>ECSE 618</td>
<td>4</td>
<td>Haptics</td>
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<tr>
<td>ECSE 681*</td>
<td>4</td>
<td>Colloquium in Electrical Engineering</td>
</tr>
<tr>
<td>EPIB 521</td>
<td>3</td>
<td>Regression Analysis for Health Sciences</td>
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<td>EXMD 609</td>
<td>3</td>
<td>Cellular Methods in Medical Research</td>
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<tr>
<td>EXMD 610</td>
<td>3</td>
<td>Molecular Methods in Medical Research</td>
</tr>
<tr>
<td>FACC 510</td>
<td>3</td>
<td>Selected Topics in the Faculty of Engineering 1</td>
</tr>
<tr>
<td>MATH 525</td>
<td>4</td>
<td>Sampling Theory and Applications</td>
</tr>
<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>MDPH 612</td>
<td>3</td>
<td>Instrumentation and Computation in Medical Physics</td>
</tr>
<tr>
<td>MECH 500*</td>
<td>3</td>
<td>Selected Topics in Mechanical Engineering</td>
</tr>
<tr>
<td>MECH 548</td>
<td>3</td>
<td>Cellular Materials in Natural and Engineering Structures</td>
</tr>
<tr>
<td>MECH 553</td>
<td>3</td>
<td>Design and Manufacture of Microdevices</td>
</tr>
<tr>
<td>MECH 561</td>
<td>3</td>
<td>Biomechanics of Musculoskeletal Systems</td>
</tr>
<tr>
<td>MECH 562</td>
<td>3</td>
<td>Advanced Fluid Mechanics</td>
</tr>
<tr>
<td>MECH 563</td>
<td>3</td>
<td>Biofluids and Cardiovascular Mechanics</td>
</tr>
<tr>
<td>MECH 605</td>
<td>4</td>
<td>Applied Mathematics 1</td>
</tr>
<tr>
<td>MECH 610</td>
<td>4</td>
<td>Fundamentals of Fluid Dynamics</td>
</tr>
<tr>
<td>MECH 632</td>
<td>4</td>
<td>Advanced Mechanics of Materials</td>
</tr>
<tr>
<td>NEUR 603</td>
<td>3</td>
<td>Computational Neuroscience</td>
</tr>
<tr>
<td>NEUR 630</td>
<td>3</td>
<td>Principles of Neuroscience 1</td>
</tr>
<tr>
<td>NEUR 631</td>
<td>3</td>
<td>Principles of Neuroscience 2</td>
</tr>
<tr>
<td>PHGY 502</td>
<td>3</td>
<td>Exercise Physiology</td>
</tr>
</tbody>
</table>
* When topic is appropriate.

6.11.3.6 Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The goal of the Biological and Biomedical Engineering Ph.D. program is for students to gain advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus in an area of choice while integrating quantitative concepts and engineering tools for the study of life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. The program will prepare students for careers in academia, industry, hospitals and government. Students who complete the program will obtain a Doctor of Philosophy in Biological and Biomedical Engineering. The best preparation for this program is a Master’s degree in BBME or a related discipline.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

BBME 701 (0) Ph.D. Comprehensive Examination

Students must be registered in this course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

Further courses may be required by the supervisor(s) in consultation with the Graduate Program Director, depending on the educational background of individual students.

6.11.4 Chemical Engineering

6.11.4.1 Location

Department of Chemical Engineering
M.H. Wong Building
3610 University Street
Montreal QC H3A 0C5
Canada
Telephone: 514-398-4494
Fax: 514-398-6678
Email: gradinfo.chemeng@mcgill.ca
Website: www.mcgill.ca/chemeng

6.11.4.2 About Chemical Engineering

The Department offers programs leading to the Master of Engineering and the Doctor of Philosophy degrees.

The Department's offices and research laboratories are located in the M.H. Wong Building. Collectively, 17 members of the academic staff conduct research programs in almost all areas of modern chemical engineering, drawing upon theoretical, computational, and experimental methodologies. The Department's faculty have been well supported by government programs (e.g., NSERC, FRQNT, CIHR, CFI, and CRC) and industry through research partnerships and contracts. Our laboratories are equipped with state-of-the-art equipment, and we attract outstanding graduate students from all over the world. Our main current research areas are briefly described below.
Advanced materials and polymers – The Department has an internationally recognized research program in structural, functional, and biological materials, spanning synthesis, characterization, processing, and modelling activities, with strong links to academic, government, and industrial research centres. Areas include plasma processing (e.g., nanofluids, carbon nanotubes, advanced coatings) and polymeric or “soft” materials research (e.g., self-assembling or structured materials; complex fluids; liquid crystals; colloids and soft composites; and novel polymerization methods). Applications of the research are targeted toward the development of next-generation, high-density storage media, functional coatings, electronic devices, composite fluids and “smart” materials, to name but a few.

Biomedical engineering and biotechnology – The majority of professors in the Department are involved with biomedical engineering. This is a very broad research area that includes biotechnology and biomedical engineering. Biotechnology is an integrated approach of combining life sciences (e.g., biochemistry and cell biology) with process engineering, design, and scale-up principles. This is the use of biological systems or living organisms to do practical things and manufacture valuable products such as biohydrogen, drugs, therapeutics, polymers, and surfactants. Biomedical engineering combines the principles of engineering with medicine as well as life sciences and biology. Examples of this include:

- drug delivery methods;
- biomedical devices;
- cardiovascular and other biomechanics;
- biomaterials for applications such as artificial implants;
- products such as bacteriophages for alternative treatment techniques.

Energy – Energy usage has increased significantly since the steam engine launched the Industrial Revolution. This is due to our ever-growing human population, increased production of consumer goods, and rising use of energy-intensive devices such as automobiles, cell phones, computers, and climate comfort units. Instability in oil production and the inevitable depletion of fossil fuels is forcing scientists to find new resources and develop new technologies to keep pace with elevating energy demands. The Chemical Engineering Department at McGill University has a wide research focus included:

- hydrogen production from microbial conversion of waste streams and electrolysis of water;
- hydrogen storage and molecular modelling of hydrogen storage;
- hydrogen fuel cells and solid oxide fuel cells;
- methane recovery, storage, and transportation using gas hydrates;
- oil and gas flow assurance;
- plasma technology to produce nanomaterials for energy conversion/storage devices.

Environmental engineering – Environmental engineering is the application of science and engineering principles to protect the environment and remediate polluted sites. Chemical and environmental engineers develop and design processes to provide healthy air, water, and soil. They also develop green products and sustainable processes. Using their background in process engineering, environmental chemistry, earth sciences, and biology, engineers have to meet the current and future challenges in protecting, managing, and restoring the environment. Ongoing research in the area of environmental engineering in our department includes:

- the study of wastewater treatment processes;
- biodegradation of emerging pollutants;
- advanced oxidation processes;
- transport and fate of waterborne contaminants;
- production of alternative fuels;
- environmental nanotechnology for remediation of contaminated soils and waters;
- green chemistry for safer products and processes;
- development of biosensors for pollutant detection.

Plasma science and engineering – Plasma is often called the fourth state of matter, being the result of raising a gas to such an energy level that it contains conducting particles such as electrons and ions. While most of the universe is in a plasma state, plasmas on earth are relatively uncommon. Plasma science and engineering research examines the use of the plasma state to produce physical and chemical changes to matter (bulk and surfaces). Plasmas may be in non-equilibrium, a state in which the overall gas is at low temperature and only the electrons are very energetic, or in the equilibrium state, where the temperature of all constituents is essentially equal and may range from thousands to tens of thousands of degrees Kelvin (e.g., the sun’s surface is in a plasma state, at a temperature of about 6,000K). Non-equilibrium plasmas are used in such applications as the deposition of coatings and functionalization of surfaces, the treatment of cells, and the treatment of harmful gases and liquids. Thermal plasmas are used in the synthesis of advanced materials such as nanoparticles, carbon nanotubes, and coatings, as well as in the treatment of toxic and persistent wastes and metallurgical processing. Both thermal and non-thermal plasmas are currently used and studied in the McGill Plasma Processing Laboratory, which forms one of the founding groups of the Plasma-Quebec Centre.

section 6.11.4.5: Master of Engineering (M.Eng.) Chemical Engineering (Thesis) (45 credits)

The M.Eng. in Chemical Engineering (Thesis) is a research-oriented degree that allows the candidates to refine their skills by expanding their knowledge of chemical engineering through coursework and a research thesis under the supervision of a Faculty member (professor). The M.Eng. (Thesis) program offers advanced training in not only fundamentals but also research methods and is, therefore, the more suitable option for those whose primary interest is research. Graduates of this degree either pursue a Ph.D. or work in industry.
section 6.11.4.6: Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis) (45 credits)

The M.Eng. in Chemical Engineering (Non-Thesis) is a course-oriented degree, which includes a short project completed under the supervision of a Faculty member (professor). Through the program, graduate students can advance their knowledge in various chemical engineering disciplines through coursework and technical training.

section 6.11.4.7: Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis): Environmental Engineering (45 credits)

This program is currently not offered.

The M.Eng. in Chemical Engineering (Non-Thesis) – Environmental Engineering is a specialized version of the M.Eng. in Chemical Engineering (Non-Thesis). This inter-departmental graduate program leads to a master’s degree in Environmental Engineering. The objective of the program is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. This Non-Thesis degree falls within the M.Eng. and M.Sc. programs which are offered in the Departments of Bioresource, Chemical, Civil, and Mining, Metals and Materials Engineering. The Environmental Engineering program emphasizes interdisciplinary fundamental knowledge, practical perspective and awareness of environmental issues. It is a course-oriented degree, which includes prescribed courses related to environmental engineering and a short project completed under the supervision of a Faculty member (professor). Graduate students can specialize in environmental engineering through this program offered in collaboration with the McGill School of Environment.

section 6.11.4.8: Doctor of Philosophy (Ph.D.) Chemical Engineering

The Ph.D. is a research degree requiring few courses and an extensive thesis, conducted under the supervision of a Faculty member (professor), that makes a distinct contribution to knowledge. The Ph.D. program prepares candidates for a career in teaching, research and/or development and graduates are expected to have acquired autonomy in conducting research. McGill also offers various workshops that provide general, transitional, and professional skills development opportunities, preparing candidates for various career options following the Ph.D.

6.11.4.3 Chemical Engineering Admission Requirements and Application Procedures

6.11.4.3.1 Admission Requirements

Admission to graduate studies requires a minimum CGPA of 3.0/4.0 (or equivalent) for the complete bachelor's program, or a minimum GPA of 3.2/4.0 (or equivalent) in the last two years of full-time studies in an undergraduate program. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must achieve a minimum TOEFL score of 90 on the Internet-based test (iBT), with each component score not less than 20, prior to admission.

M.Eng. (Thesis), M.Eng. (Non-Thesis)

Admission requires a bachelor's degree (or equivalent) in engineering or science disciplines.

Ph.D.

Admission requires a master's degree (or equivalent) from a recognized university. Students in the Department's M.Eng. (Thesis) program may petition to transfer to the Ph.D. program after one year without submitting the master’s thesis following a formal “fast-track” procedure. At their request, applicants (without a master's degree) with exceptionally high Academic Standing and outstanding research potential will be considered for direct admission to the Ph.D. program.

6.11.4.3.2 Application Procedure

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

6.11.4.3.1 Additional Requirements

• Reference Letter – Ph.D. applicants must submit a letter of recommendation from their master's research supervisor.

6.11.4.3.3 Application Dates Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Chemical Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
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</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Application Opening Dates</td>
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<tr>
<td>-------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td></td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>May 15</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. Application Deadlines differ for International and Canadian (and Permanent Resident) students to allow time to obtain a visa.

### 6.11.4.4 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.(III.), M.S., Ph.D.(Carn. Mell), Eng.
- Richard J. Munz; B.A.Sc.(Wat.), Ph.D.(McG.), Eng.
- W.J. Murray Douglas; B.Sc.(Qu.), M.S.E., Ph.D.(Mich.)
- Juan H. Vera; Ing.Quim.(UTE, Chile), M.Sc.(Calif., Berk.), Dr.Ing.(USM, Chile)

#### Professors

- Sylvain Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), ing. (Gerald Hatch Faculty Fellow)
- Jean-Luc Meunier; Dipl.Ing.(EPFL), M.Sc., Ph.D.(INRS, Queb.), ing.
- Sasha Omanovic; Dipl.Ing., Dr.Sc.(Zagreb), P.Eng.
- Alejandro D. Rey; B.Ch.E.(CCNY), Ph.D.(Calif.), F.R.S.C. (James McGill Professor)
- Nathalie Tufenkji; B.Eng.(McG.), M.Sc., Ph.D.(Yale), ing. (CRC-Tier I)
- Viviane Yargeau; B.Ch.E., M.Sc.A., Ph.D.(Sher.), ing.

#### Associate Professors

- Dimitrios Berk; B.Sc.(Bosphorus), M.E.Sc.(W. Ont.), Ph.D.(Calg.), P.Eng.
- P.-Luc Girard-Lauriault; B.Sc.(Montr.), Ph.D. (École Poly., Montr.)
- Reghan James Hill; B.E.(Auck.), Ph.D.(Cornell)
- Anne-Marie Kietzig; Dipl.Ing.(TU Berlin), Ph.D.(Br. Col.), ing.
- Richard L. Leask; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Tor.), P.Eng.
- Phillip Servio; B.A.Sc., Ph.D.(Br. Col.)

#### Assistant Professors

- Noémie Dorval Courchesne; B.Sc., B.A. & Sc.(Ott.), Ph.D.(MIT)
- Corinne Hoesli; B.Sc., B.A.Sc.(Ott.), Ph.D.(Br. Col.), ing.
- Jan Kopyscinski; Dipl.Ing.(BTU Cottbus), Dr.Sc.(ETH Zurich)
- Christopher Moraes; B.A.Sc., Ph.D.(Tor.)

### 6.11.4.5 Master of Engineering (M.Eng.) Chemical Engineering (Thesis) (45 credits)

#### Thesis Courses (31 credits)

- CHEE 697 (6) Thesis Proposal
Required Courses (4 credits)

- CHEE 681 (1) Laboratory Safety 1
- CHEE 682 (1) Laboratory Safety 2
- CHEE 687 (2) Research Skills and Ethics

Complementary Courses (10 credits)

4 credits from the following:

- CHEE 611 (4) Heat and Mass Transfer
- CHEE 621 (4) Thermodynamics
- CHEE 631 (4) Foundations of Fluid Mechanics
- CHEE 641 (4) Chemical Reaction Engineering
- CHEE 651 (4) Advanced Biochemical Engineering
- CHEE 662 (4) Computational Methods
- CHEE 672 (4) Process Dynamics and Control

A minimum of 3 credits of Chemical Engineering courses at the 500, 600, or 700 level.

Any remaining complementary course credit requirements may be fulfilled by completing Chemical Engineering or other Engineering or Science courses at the 500, 600, or 700 level.

6.11.4.6 Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis) (45 credits)

Research Project

Project (design or research): 6-12 credits.

6 credits must include the following course:

- CHEE 695 (6) Project in Chemical Engineering

Complementary Courses

33-39 credits (a minimum of 18 credits in Chemical Engineering) at the 500, 600, or 700 level.

9 credits must be in an area of concentration.

12 additional courses at the 500, 600, or 700 level.

6.11.4.7 Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis): Environmental Engineering (45 credits)

This program is currently not accepting applicants.

Research Project (6 credits)

- CHEE 695 (6) Project in Chemical Engineering

Required Courses (6 credits)

- CHEE 591 (3) Environmental Bioremediation
- CIVE 615 (3) Environmental Engineering Seminar
Complementary Courses (22 credits)
Minimum of 22 credits

Data analysis course: (3 credits)
- AEMA 611 (3) Experimental Designs 1
- CIVE 555 (3) Environmental Data Analysis
- PSYC 650 (3) Advanced Statistics 1

Toxicology: (3 credits)
- OCCH 612 (3) Principles of Toxicology
- OCCH 616 (3) Occupational Hygiene

Water pollution engineering: (4 credits)
- CIVE 651 (4) Theory: Water / Wastewater Treatment
- CIVE 652 (4) Biological Treatment: Wastewaters
- CIVE 660 (4) Chemical and Physical Treatment of Waters

Air pollution engineering: (3 credits)
- CHEE 592 (3) Industrial Air Pollution Control
- MECH 534 (3) Air Pollution Engineering

Soil and water quality management: (3 credits)
- BREE 533 (3) Water Quality Management
- CIVE 686 (4) Site Remediation

Environmental impact: (3 credits)
- GEOG 501 (3) Modelling Environmental Systems
- GEOG 551 (3) Environmental Decisions

or an approved 500-, 600-, or 700-level alternative.

Environmental policy: (3 credits)
- URPB 506 (3) Environmental Policy and Planning

or an approved 500-, 600-, or 700-level alternative.

Elective Courses (11 credits)
- CHEE 696 (6) Extended Project

or another Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval.

6.11.4.8 Doctor of Philosophy (Ph.D.) Chemical Engineering

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.
The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE 681</td>
<td>1</td>
<td>Laboratory Safety 1</td>
</tr>
<tr>
<td>CHEE 682</td>
<td>1</td>
<td>Laboratory Safety 2</td>
</tr>
<tr>
<td>CHEE 687</td>
<td>2</td>
<td>Research Skills and Ethics</td>
</tr>
<tr>
<td>CHEE 795</td>
<td>0</td>
<td>Ph.D. Thesis Proposal</td>
</tr>
<tr>
<td>CHEE 796</td>
<td>0</td>
<td>Ph.D. Proposal Defence</td>
</tr>
<tr>
<td>CHEE 797</td>
<td>0</td>
<td>Ph.D. Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses**

(6-12 credits)

- 6-8 credits of Chemical Engineering courses (two courses) at the 500, 600, or 700 level.
- 12 credits (three courses) from the following list must be taken during the M.Eng. and/or Ph.D. program:

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHEE 611</td>
<td>4</td>
<td>Heat and Mass Transfer</td>
</tr>
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<td>Computational Methods</td>
</tr>
<tr>
<td>CHEE 672</td>
<td>4</td>
<td>Process Dynamics and Control</td>
</tr>
</tbody>
</table>

* Note: The number of credits taken will depend on how many of these courses have been taken during the M.Eng. program. Three courses from the above list must be taken during the M.Eng. and/or Ph.D. program. If not taken during the M.Eng. program, they must be taken during the Ph.D. program.

### 6.11.5 Civil Engineering and Applied Mechanics

#### 6.11.5.1 Location

Department of Civil Engineering and Applied Mechanics  
Macdonald Engineering Building, Room 492  
817 Sherbrooke Street West  
Montreal QC H3A 0C3  
Canada  
Telephone: 514-398-6858  
Fax: 514-398-7361  
Email: gradinfo.civil@mcgill.ca  
Website: www.mcgill.ca/civil

#### 6.11.5.2 About Civil Engineering and Applied Mechanics

Advanced courses of instruction and laboratory facilities are available for Engineering graduate students who wish to proceed to the degrees of M.Eng., M.Sc., and Ph.D.

Graduate studies and research are at present being conducted in the fields of structures and structural mechanics; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

**M.Eng. in Civil Engineering**

The master's degree can be pursued as a research degree (thesis) or as a coursework-based degree (project). The thesis degree is for those who wish to undertake research while the project degree is for those who wish to have a broader and more specialized training in civil engineering.
Admissions and Application Procedures

The general rules of Graduate and Postdoctoral Studies apply and are detailed in University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures. The minimum academic standard for admission is a cumulative grade point average (CGPA) of 3.0/4.0 in a recognized program. Alternatively, an equivalent grade point average of no less than 3.2/4.0 over the last two years of the program will be accepted.

Applications must be submitted online through the McGill Graduate Admissions and Application System. Applicants must inform the Program Coordinator, Department of Civil Engineering and Applied Mechanics, if they have completed an undergraduate or graduate degree from a recognized foreign institution where English is not the language of instruction or from a recognized Canadian institution (anglophone or francophone), of the specific requirements they wish to follow in order to complete their degree. Meeting minimum requirements does not guarantee admission.

Research can be conducted in the fields of structures and structural mechanics; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

This program is offered to students with a university undergraduate degree in engineering who desire graduate education in the environmental engineering field. This non-thesis option is within the context of the existing M.Eng. (project option) programs currently offered in the Departments of Bioresource Engineering (Agricultural and Environmental Sciences); Chemical Engineering; Civil Engineering; and Mining, Metals, and Materials Engineering. This program emphasizes interdisciplinary fundamental knowledge courses, practical applications in diverse environmental contexts, and functional skills needed for solving environmental problems through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University. Candidates must possess a bachelor's degree in engineering. The Environmental Engineering option is administered by the Faculty of Engineering.

Further information may be obtained from the Program Coordinator, Department of Civil Engineering and Applied Mechanics.

Research can be conducted in the fields of structures and structural mechanics; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

Civil Engineering and Applied Mechanics Admission Requirements and Application Procedures

Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply and are detailed in University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures. The minimum academic standard for admission is a cumulative grade point average (CGPA) of 3.0/4.0 in a recognized program. Alternatively, an equivalent grade point average of no less than 3.2/4.0 over the last two years of the program will be accepted.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must write either:

- the TOEFL (Test of English as a Foreign Language; preferably the Internet-based test (iBT)); Master's applicants must achieve an overall minimum score of 86 (iBT; or 567 on the paper-based test (PBT)) and Ph.D. applicants must achieve a minimum overall score of 92 (iBT; or 580 on the PBT), with a minimum score of 20 for each component (i.e., Writing, Reading, Speaking, Listening); or
- the IELTS (International English Language Testing System); Master's applicants must achieve a minimum band score of 6.5, and Ph.D. applicants must achieve a minimum band score of 7 in order to apply.

Test results reach McGill approximately eight weeks after the test is taken; please note that it is the student's responsibility to make the necessary arrangements with the examining board to write the test in his/her country of residence. Full information and registration forms may be obtained by consulting the TOEFL or the IELTS websites. You must meet both of these requirements to be eligible to apply. Meeting minimum requirements does not guarantee admission.

Application Procedures

McGill's online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Civil Engineering and Applied Mechanics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.
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</tr>
<tr>
<td><strong>Winter Term:</strong></td>
<td>Feb. 15</td>
<td>Sept. 1</td>
</tr>
<tr>
<td><strong>Summer Term:</strong></td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** Applications for Summer term admission will not be considered.

### 6.11.5.4 Civil Engineering and Applied Mechanics Faculty

**Chair**
Van-Thanh-Van Nguyen

**Associate Chair**
Yixin Shao

**Emeritus Professors**
Stuart B. Savage; B.Eng.(McG.), M.S.Eng.(Cal. Tech.), Ph.D.(McG.), F.R.S.C.

**Post-Retirement Professor**
Suresh C. Shrivastava; B.Sc.(Eng.)(Vikram), M.C.E.(Del.), Sc.D.(Col.), Eng.

**Post-Retirement Associate Professor**
Ronald Gehr; B.Sc.(Eng.)(Witw.), M.A.Sc., Ph.D.(Tor.), P.Eng., F.C.S.C.E.

**Professors**
Vincent H. Chu; B.S.Eng.(Taiwan), M.A.Sc.(Tor.), Ph.D.(MIT), Eng.
Subhasis Ghoshal; B.C.E.(Jad.), M.S.(Missouri), Ph.D.(Carn. Mell), P.Eng.
Denis Mitchell; B.A.Sc., M.A.Sc., Ph.D.(Tor.), F.A.C.I., Eng. (*James McGill Professor*)
James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.; Dean, Faculty of Engineering
Yixin Shao; B.Sc., M.S.(Tongji), Ph.D.(NWestern), P.Eng., F.A.C.I.
Laxmi Sushama; B.Tech.(Kerala), M.Eng.(Indian Inst. Sci.), MS.(NUI), Ph.D.(Melp.) (*Trottier Chair in Sustainability Engineering and Design*).

**Associate Professors**
Andrew J. Boyd; B.Sc.Eng.(New Br.), M.A.Sc.(Tor.), Ph.D.(Br. Col.), P.Eng., F.A.C.I.
Dominic Frigon; B.Sc., M.Sc.(McG.), Ph.D.(Ill.-Urbana-Champaign), L.L.E.
Susan J. Gaskin; B.Sc.(Eng.)(Qu.), Ph.D.(Cant.), Eng.
Jinxia Liu; B.E./M.E.(Tianjin), M.E.(Rensselaer Poly.), Ph.D.(Purd.)
Associate Professors
Mohamed A. Meguid; B.Sc.(Cairo), M.Sc., Ph.D.(Western), P.Eng.
Luis Miranda-Moreno; B.Sc., M.Eng.(UAEM, Mexico), Ph.D.(Wat.)
Colin Rogers; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Syd.), P.Eng.

Assistant Professor
Mary Kang; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Princ.)
Omid M. Rouhani; B.Sc., M.Sc.(Sharif Univ. of Technology), M.Sc., Ph.D.(Calif., Davis)

Adjunct Professors
Sofia Babarutsi, Paul Rodrigue

6.11.5.5 Master of Engineering (M.Eng.) Civil Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)
CIVE 630 (3) Thesis Research 1
CIVE 631 (3) Thesis Research 2
CIVE 632 (3) Thesis Research 3
CIVE 633 (6) Thesis Research 4
CIVE 634 (6) Thesis Research 5
CIVE 635 (6) Thesis Research 6

Required Course
1 credit:
CIVE 662 (1) Masters Research Seminar

Complementary Courses (17 credits)
(minimum 17 credits)
A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

6.11.5.6 Master of Science (M.Sc.) Civil Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)
CIVE 630 (3) Thesis Research 1
CIVE 631 (3) Thesis Research 2
CIVE 632 (3) Thesis Research 3
CIVE 633 (6) Thesis Research 4
CIVE 634 (6) Thesis Research 5
CIVE 635 (6) Thesis Research 6

Required Course
1 credit:
CIVE 662 (1) Masters Research Seminar

Complementary Courses (17 credits)
A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

### 6.11.5.7 Master of Engineering (M.Eng.) Civil Engineering (Non-Thesis) (45 credits)

The MEng Non-Thesis program aims to provide a more professional orientation to graduate students. The main features of this degree program are:

- A minimum of 15 credits selected from a list of research oriented courses
- A maximum of 30 credits with emphasis on expertise (specialty area) for professional practice.

#### Research Seminar (3 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 664</td>
<td>(3)</td>
<td>MEng (Non-thesis) Research Seminar</td>
</tr>
</tbody>
</table>

#### List A: Research Courses

(12-42) credits

A minimum of 12 credits from research courses, from one of the research streams: 1) Infrastructure, 2) Environmental/Hydraulics-Water Resources, and 3) Transportation.

**Infrastructure Stream**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 512</td>
<td>(3)</td>
<td>Advanced Civil Engineering Materials</td>
</tr>
<tr>
<td>CIVE 602</td>
<td>(4)</td>
<td>Finite Element Analysis</td>
</tr>
<tr>
<td>CIVE 603</td>
<td>(4)</td>
<td>Structural Dynamics</td>
</tr>
<tr>
<td>CIVE 609</td>
<td>(4)</td>
<td>Risk Engineering</td>
</tr>
<tr>
<td>CIVE 623</td>
<td>(4)</td>
<td>Durability of Materials</td>
</tr>
</tbody>
</table>

**Environmental/Hydraulics-Water Resources**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 555</td>
<td>(3)</td>
<td>Environmental Data Analysis</td>
</tr>
<tr>
<td>CIVE 572</td>
<td>(3)</td>
<td>Computational Hydraulics</td>
</tr>
<tr>
<td>CIVE 584</td>
<td>(3)</td>
<td>Groundwater Engineering</td>
</tr>
<tr>
<td>CIVE 651</td>
<td>(4)</td>
<td>Theory: Water / Wastewater Treatment</td>
</tr>
<tr>
<td>CIVE 677</td>
<td>(4)</td>
<td>Water-Energy Sustainability</td>
</tr>
</tbody>
</table>

**Transportation**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 540</td>
<td>(3)</td>
<td>Urban Transportation Planning</td>
</tr>
<tr>
<td>CIVE 542</td>
<td>(3)</td>
<td>Transportation Network Analysis</td>
</tr>
<tr>
<td>CIVE 560</td>
<td>(3)</td>
<td>Transportation Safety and Design</td>
</tr>
<tr>
<td>CIVE 609</td>
<td>(4)</td>
<td>Risk Engineering</td>
</tr>
</tbody>
</table>

#### List B: Other Complementary Courses from the Department

0-30 credits

Courses from List A that are not used to fulfill the 15 credits requirement of Research Courses can be used also as complementary courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 520</td>
<td>(3)</td>
<td>Groundwater Hydrology</td>
</tr>
<tr>
<td>CIVE 521</td>
<td>(3)</td>
<td>Nanomaterials and the Aquatic Environment</td>
</tr>
<tr>
<td>CIVE 527</td>
<td>(3)</td>
<td>Renovation and Preservation: Infrastructure</td>
</tr>
<tr>
<td>CIVE 550</td>
<td>(3)</td>
<td>Water Resources Management</td>
</tr>
<tr>
<td>CIVE 551</td>
<td>(3)</td>
<td>Environmental Transport Processes</td>
</tr>
<tr>
<td>CIVE 557</td>
<td>(3)</td>
<td>Microbiology for Environmental Engineering</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>CIVE 558</td>
<td>(3)</td>
<td>Biomolecular Techniques for Environmental Engineering</td>
</tr>
<tr>
<td>CIVE 561</td>
<td>(3)</td>
<td>Urban Activity, Air Pollution, and Health</td>
</tr>
<tr>
<td>CIVE 573</td>
<td>(3)</td>
<td>Hydraulic Structures</td>
</tr>
<tr>
<td>CIVE 574</td>
<td>(3)</td>
<td>Fluid Mechanics of Water Pollution</td>
</tr>
<tr>
<td>CIVE 577</td>
<td>(3)</td>
<td>River Engineering</td>
</tr>
<tr>
<td>CIVE 604</td>
<td>(4)</td>
<td>Theory of Plates and Shells</td>
</tr>
<tr>
<td>CIVE 605</td>
<td>(4)</td>
<td>Stability of Structures</td>
</tr>
<tr>
<td>CIVE 607</td>
<td>(4)</td>
<td>Advanced Design in Steel</td>
</tr>
<tr>
<td>CIVE 612</td>
<td>(4)</td>
<td>Earthquake-Resistant Design</td>
</tr>
<tr>
<td>CIVE 614</td>
<td>(4)</td>
<td>Composites for Construction</td>
</tr>
<tr>
<td>CIVE 615</td>
<td>(3)</td>
<td>Environmental Engineering Seminar</td>
</tr>
<tr>
<td>CIVE 616</td>
<td>(4)</td>
<td>Nonlinear Structural Analysis for Buildings</td>
</tr>
<tr>
<td>CIVE 617</td>
<td>(4)</td>
<td>Design and Rating of Highway and Railway Bridges</td>
</tr>
<tr>
<td>CIVE 618</td>
<td>(4)</td>
<td>Design in Concrete 1</td>
</tr>
<tr>
<td>CIVE 622</td>
<td>(4)</td>
<td>Prestressed Concrete</td>
</tr>
<tr>
<td>CIVE 624</td>
<td>(4)</td>
<td>Durability of Structures</td>
</tr>
<tr>
<td>CIVE 625</td>
<td>(4)</td>
<td>Condition Assessment of Existing Structures</td>
</tr>
<tr>
<td>CIVE 628</td>
<td>(4)</td>
<td>Design of Wood Structures</td>
</tr>
<tr>
<td>CIVE 637</td>
<td>(4)</td>
<td>Discrete Choice Modeling in Transportation</td>
</tr>
<tr>
<td>CIVE 652</td>
<td>(4)</td>
<td>Biological Treatment: Wastewaters</td>
</tr>
<tr>
<td>CIVE 660</td>
<td>(4)</td>
<td>Chemical and Physical Treatment of Waters</td>
</tr>
<tr>
<td>CIVE 661</td>
<td>(4)</td>
<td>Modelling of Transportation Emissions</td>
</tr>
<tr>
<td>CIVE 663</td>
<td>(4)</td>
<td>Environmental Fate of Organic Chemicals</td>
</tr>
<tr>
<td>CIVE 683</td>
<td>(4)</td>
<td>Advanced Foundation Design</td>
</tr>
<tr>
<td>CIVE 686</td>
<td>(4)</td>
<td>Site Remediation</td>
</tr>
</tbody>
</table>

**Project Courses**

0 or 5-15 credits

Credits for a program may vary, depending on the amount of work involved. Project courses are chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 691</td>
<td>(1)</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>CIVE 692</td>
<td>(2)</td>
<td>Research Project 2</td>
</tr>
<tr>
<td>CIVE 693</td>
<td>(3)</td>
<td>Research Project 3</td>
</tr>
<tr>
<td>CIVE 694</td>
<td>(4)</td>
<td>Research Project 4</td>
</tr>
<tr>
<td>CIVE 695</td>
<td>(5)</td>
<td>Research Project 5</td>
</tr>
<tr>
<td>CIVE 696</td>
<td>(6)</td>
<td>Research Project 6</td>
</tr>
<tr>
<td>CIVE 697</td>
<td>(7)</td>
<td>Research Project 7</td>
</tr>
</tbody>
</table>

Graduate courses from other McGill Engineering Departments are also allowed as complementary courses. A maximum of 1/3 of coursework credits can be taken outside McGill. Approval is required from the Department in both cases.

**6.11.5.8 Master of Engineering (M.Eng.) Civil Engineering (Non-Thesis): Environmental Engineering (45 credits)**

The program consists of a minimum of 45 credits, of which, depending on the student's home department, a minimum of 5 and a maximum of 15 may be allotted to the research project. The balance of 30 to 40 credits is earned by coursework. The Department also allows students to complete the program using a minimum of 45 credits of coursework only.
The Environmental Engineering option is administered by the Faculty of Engineering. Further information may be obtained from the Program Coordinator, Department of Civil Engineering and Applied Mechanics.

**Research Project**
(0 or 5-15 credits)
The program may include a project or, with Departmental approval, may be completed with courses only.

**Required Courses (6 credits)**
- CHEE 591 (3) Environmental Bioremediation
- CIVE 615 (3) Environmental Engineering Seminar

**Complementary Courses**
(24-39 credits)
a minimum of 22 credits chosen from the following:

**Data analysis:**
- AEMA 611 (3) Experimental Designs 1
- CIVE 555 (3) Environmental Data Analysis
- PSYC 650 (3) Advanced Statistics 1

**Toxicology:**
- OCCH 612 (3) Principles of Toxicology

**Water pollution engineering:**
- CIVE 651 (4) Theory: Water / Wastewater Treatment
- CIVE 652 (4) Biological Treatment: Wastewaters
- CIVE 660 (4) Chemical and Physical Treatment of Waters

**Air pollution engineering:**
- MECH 534 (3) Air Pollution Engineering

**Soil and water quality management:**
- BREE 533 (3) Water Quality Management
- CIVE 686 (4) Site Remediation

**Environmental impact:**
- GEOG 501 (3) Modelling Environmental Systems
- GEOG 551 (3) Environmental Decisions

**Environmental policy**
- URBP 506 (3) Environmental Policy and Planning

**Elective Courses**
Also, 0-15 credits of graduate courses from an approved list of courses from the Faculties of Engineering, Agricultural and Environmental Sciences, Law, Management; Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, Religious Studies, Sociology, and McGill School of Environment.

6.11.5.9 Doctor of Philosophy (Ph.D.) Civil Engineering

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

CIVE 701 (0) Ph.D. Comprehensive Preliminary Oral Exam

Complementary Courses
6-8 credits at the 500 or 600 level taken from the Department of Civil Engineering.

6.11.6 Electrical and Computer Engineering

6.11.6.1 Location
Department of Electrical and Computer Engineering
McConnell Engineering Building, Room 633
3480 University Street
Montreal QC H3A 0E9
Canada
Telephone: 514-398-7344 or 514-398-1406
Fax: 514-398-4470
Email: grad.ece@mcgill.ca
Website: www.mcgill.ca/ece

6.11.6.2 About Electrical and Computer Engineering
The Department offers programs of graduate studies leading to a degree of Master of Engineering (thesis or project/non-thesis) or Doctor of Philosophy. The research interests and facilities of the Department are very extensive, involving more than 50 faculty members and 300 postgraduate students. The major activities are divided into the following groups:

- Bioelectrical Engineering;
- Telecommunications and Signal Processing;
- Systems and Control;
- Integrated Circuits and Systems;
- Nano-Electronic Devices and Materials;
- Photonic Systems;
- Computational Electromagnetics;
- Power Engineering;
- Intelligent Systems;
- Software Engineering.

The Department is equipped with state-of-the-art experimental laboratories and there are numerous multidisciplinary research projects, so students are provided with an ideal environment to develop new technologies, discover novel phenomena, and design revolutionary devices.

Research Facilities
The Department has extensive laboratory facilities for all its main research areas. In addition, McGill University often collaborates with other institutions for teaching and research.

- The laboratories for research in Robotics, Control, and Vision are in the Centre for Intelligent Machines (CIM).
- Telecommunications laboratories focus their work on signal processing, broadband communications, and networking; these laboratories form part of the Centre for Advanced Systems and Communications (SYTACom), a McGill University Research Centre devoted to fostering innovation in the area of communications systems and technologies via advanced research and training of highly qualified personnel.
The Integrated Microsystems Laboratory (iML) supports research in FPGAs, MEMS, micro- and nano-systems, VLSI architectures for digital communications and signal processing, mixed signal, RF, and microwave integrated circuits and components, simulation of integrated circuits and microsystems, integrated antennas, design for testability, reconfigurable computing, high-speed circuits, and packaging.

- Antenna and microwave research, and optical fibre and integrated optics research are carried out in a fully equipped facility.
- The Photonics Systems laboratory includes continuous wave and femtosecond Ti: Sapphire lasers, diode lasers, extensive optics and optomechanics, and sophisticated electronic and imaging equipment.
- Solid state facilities include measurement equipment for magnetic and electric properties of materials, vacuum deposition, and RF sputtering systems.
- The Computational Electromagnetics Laboratory provides tools for numerical analysis, visualization, interface design, and knowledge-based system development.
- There is also a well-equipped laboratory for power electronics and power systems research.

The Department has extensive computer facilities. Most research machines are networked, providing access to a vast array of hardware. In addition, McGill University is linked to the Centre de recherche informatique de Montréal (CRIM) and the University Computing Centre.

There are three other universities in Montreal: Concordia University is the other English-language university; l’Université de Montréal, and its affiliated school of engineering, l'École Polytechnique, is the largest francophone university; l'Université du Québec has a campus in Montreal and in major towns throughout the province.

The proximity of these schools to McGill University ensures that a rich array of courses is available to suit individual needs. McGill also collaborates on research projects with many organizations such as l’Institut de recherche d’Hydro-Québec (IREQ) and l’Institut national de la recherche scientifique (INRS).

Financial Support

Graduate Assistantships: The Department awards several graduate assistantships to qualified full-time graduate students. These are normally funded from research grants or contracts awarded to individual faculty members. In return, the graduate assistant is expected to perform research-related tasks assigned by the professor from whose grant the assistantship is paid. A good part, but not necessarily all, of this work can be used for preparing a thesis. There is no special application form for graduate assistantships; all applicants who indicate a need for support on their application forms will be considered.

Teaching Assistantships: Graduate students, with the approval of their supervisors, may also undertake teaching assistantships for additional remuneration. These are awarded at the beginning of the term. The Department can make no prior commitments.

Graduate students can also receive financial aid through fellowships, loans, or bursaries. For more information, please refer to www.mcgill.ca/gps/funding, or contact:

Graduate and Postdoctoral Studies, McGill University
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

section 6.11.6.5: Master of Engineering (M.Eng.) Electrical Engineering (Thesis) (46 credits)

The Master of Engineering degree (thesis option) involves graduate-level courses and an externally examined thesis. This program is research oriented and the thesis is expected to involve a thorough examination of a topic of current interest in the research area within the Department. Undertaking this program at McGill University provides students with an opportunity to conduct intensive research under the supervision of researchers who are leaders in their field. The program is an ideal preparation for a Ph.D. degree or an industrial research career.

section 6.11.6.6: Master of Engineering (M.Eng.) Electrical Engineering (Non-Thesis) (45 credits)

The Master of Engineering degree (project option) involves graduate-level courses and an internally examined research project. The program is oriented more toward professional development than the thesis option. The project is of significantly less scope than a thesis, and includes options such as a technical review, a design project, or a small-scale research project. Students are provided with a very solid background in electrical and computer engineering, both in terms of breadth across the entire field and depth in the area of specialty. Graduates frequently pursue careers in research and development. A part-time program is possible.

section 6.11.6.7: Doctor of Philosophy (Ph.D.) Electrical Engineering

The Ph.D. degree recognizes a significant novel research contribution that is described in an externally examined thesis. Students who are admitted to this program normally have a master's degree. Research is conducted under the supervision of a faculty member. The Department provides an excellent environment for conducting research, with supervision by internationally renowned researchers and access to state-of-the-art experimental facilities. Graduates from the program most commonly pursue research and teaching careers in academia or research careers in industrial labs.

6.11.6.3 Electrical and Computer Engineering Admission Requirements and Application Procedures

6.11.6.3.1 Admission Requirements

English Proficiency Requirement: Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone
or francophone), must submit documented proof of competency in English. Accepted English language tests and minimum test score requirements can be found on our website. Official results must be received before the application deadlines.

GRE: Submission of GRE (General Aptitude Test) scores is not mandatory. Applicants who have written the GRE are welcome to submit their scores for consideration.

M.Eng. Degree (Admission Requirements)
The applicant must be the graduate of a recognized university and hold a bachelor's degree or its equivalent, as determined by McGill, in Electrical, Computer, or Software Engineering or a closely related field. An applicant holding a degree in another field of engineering or science will be considered but a Qualifying year may be required to make up any deficiencies. The applicant must have a high academic achievement: a standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of 4.0, or a GPA of 3.2 out of 4.0 for the last two full-time academic years or equivalent. Satisfaction of these general requirements does not guarantee admission. Admission to graduate studies is limited and acceptance is on a very competitive basis.

Ph.D. Degree (Admission Requirements)
In addition to satisfying the requirements for the M.Eng. program, candidates must hold a suitable master's degree from a recognized university. The applicant must have a high academic achievement: a standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of 4.0. Satisfaction of these general requirements does not guarantee admission. Admission to graduate studies is limited and acceptance is on a very competitive basis.

6.11.6.3.2 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

The Department accepts most of its graduate students for September; the chance of acceptance for January is significantly lower.

6.11.6.3.2.1 Additional Requirements
The items and clarifications below are additional requirements set by this department:

- Area of Research and Applicant Profile Form – available at www.mcgill.ca/ece/admissions/graduate/apply
- GRE – the General Aptitude Test is optional.

6.11.6.3.3 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Electrical and Computer Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All supporting documents must be uploaded to the online application system (uApply) by the application deadlines.
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

6.11.6.4 Electrical and Computer Engineering Faculty

Chair
TBA

Associate Chair, Academic
Warren Gross

Associate Chair, Undergraduate Studies
François Bouffard

Associate Chair, Graduate Programs
Odile Liboiron-Ladouceur
Emeritus Professors

Clifford H. Champness; M.Sc.(Lond.), Ph.D.(McG.)
Peter Kabal; B.A.Sc., M.A.Sc., Ph.D.(Tor.)
Boon-Teck Ooi; B.E.(Adel.), S.M.(MIT), Ph.D.(McG.), Eng.
Jonathan P. Webb; B.A., Ph.D.(Camb.)

Professors

Tal Arbel; M.Eng., Ph.D.(McG.)
Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.)
Lawrence Chan; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.)
James Clark; B.Sc., Ph.D.(Br. Col.)
Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.)
Jeremy R. Cooperstock; A.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.) (on sabbatical)
Frank Ferrie; B.Eng., Ph.D.(McG.)
Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.)
Geza Joos; B.Sc.(C'dia), M.Eng., Ph.D.(McG.) (CRC Chair)
Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.), P.Eng. (James McGill Professor) (on sabbatical)
Fabrice Labeau; M.S., Ph.D.(Louvain) (Associate Dean, Faculty Affairs)
Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)
Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F.I.E.E.E.
David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F.C.A.E., Eng.
Gordon Roberts; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.), F.I.E.E.E., Eng. (James McGill Professor) (on sabbatical)
Martin Rochette; B.A., M.Eng., Ph.D.(Laval)
Dániel Varró; M.Sc., Ph.D.(BME)
Zeljko Zilic; B.Eng.(Zagreb), M.Sc., Ph.D.(Tor.) (on sabbatical)

Associate Professors

Jan Bajcsy; B.Sc.(Harv.), M.Eng., Ph.D.(Princ.)
François Bouffard; B.Eng., Ph.D.(McG.) (William Dawson Scholar)
Benoit Boulet; B.Sc.(Laval), M.Eng.(McG.), Ph.D.(Tor.) (Associate Dean, Research & Innovation)
Mourad El-Gamal; B.Sc.(Cairo), M.Sc.(Nashville), Ph.D.(McG.)
Dennis Giannacopoulos; M.Eng., Ph.D.(McG.)
Roni Khazaka; M.Eng., Ph.D.(Car.)
Odile Liboiron-Ladouceur; B.Eng.(McG.), M.Sc., Ph.D.(Col.)
Muthucumaru Maheswaran; B.Sc.(Peradeniya), M.S.E.E., Ph.D.(Purd.) (joint appt. with School of Computer Science)
### Associate Professors

Steve McFee; B.Eng., Ph.D.(McG.)

Brett Meyer; B.S.(Wisc.), M.S., Ph.D.(Carn. Mell), P.Eng.

Hannah Michalska; B.Sc., M.Sc.(Warsaw), Ph.D.(Lond.)

Sam Musallam; B.Sc., M.Sc., Ph.D.(Tor.)

Derek Nowrouzzezhraei; B.Sc.(Wat.), 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)

Michael Rabbat; B.S.(Ill.), M.S.(Rice), Ph.D.(Wisc.) *(William Dawson Scholar)*

Ishiang Shih; M.Eng., Ph.D.(McG.)

Thomas Szkopek; B.A.Sc., M.A.Sc.(Tor.), Ph.D.(Calif.-LA)

### Assistant Professors

Sharmistha Bhadra; B.Sc.(New Br.), M.Sc., Ph.D.(Manit.)

Shane McIntosh; B.A.(Comp.)(Guelph), M.Sc., Ph.D.(Qu.)

Gunter Mussbacher; Ph.D.(Ott.)

Xiaozhe Wang; B.Sc.(Zhejiang); M.Sc.(Cornell); Ph.D.(MIT)

### Associate Members

Matthew Adam Dobbs; Ph.D.(Vic., BC)

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.)

David Juncker; Ph.D.(Neuchatel)

Nathaniel J. Quitoriano; B.S.(Calif.), Ph.D.(MIT)

### Adjunct Professors


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### 6.11.6.5 Master of Engineering (M.Eng.) Electrical Engineering (Thesis) (46 credits)

The M.Eng. in Electrical Engineering (thesis option) involves 18 graduate level course credits and an externally examined thesis. The program is research oriented and the thesis is expected to involve a thorough examination of a topic of current interest in the research area within the Department. Undertaking this program at McGill University provides students with an opportunity to conduct intensive research under the supervision of researchers who are leaders in their field. The program is an ideal preparation for a Ph.D. degree or an industrial research career.

The M.Eng. Thesis program must be completed on a full-time basis in three years. The following requirements must be met:

#### Thesis Courses (28 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECSE 691</td>
<td>(4)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>ECSE 692</td>
<td>(4)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>ECSE 693</td>
<td>(4)</td>
<td>Thesis Research 3</td>
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<tr>
<td>ECSE 694</td>
<td>(4)</td>
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<tr>
<td>ECSE 695</td>
<td>(4)</td>
<td>Thesis Research 5</td>
</tr>
<tr>
<td>ECSE 696</td>
<td>(4)</td>
<td>Thesis Research 6</td>
</tr>
<tr>
<td>ECSE 697</td>
<td>(4)</td>
<td>Thesis Research 7</td>
</tr>
</tbody>
</table>

Students who choose the thesis option must register for all 28 credits during the three terms of residency.
Complementary Courses
18 credits of 500-, 600-, or 700-level courses, of which no more than 6 credits may be outside the Department.*
* Non-departmental courses require Departmental approval. Students may be allowed to take more than 6 credits of non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

6.11.6.6 Master of Engineering (M.Eng.) Electrical Engineering (Non-Thesis) (45 credits)
The M.Eng. in Electrical Engineering (project option) involves an internally examined research project in addition to 27 graduate level course credits. The program is oriented more towards professional development than the thesis option. The project is of significantly less scope than a thesis, and includes options such as a technical review, a design project, or a small-scale research project. Undertaking 27 course credits provides students with a very solid background in electrical and computer engineering, both in terms of breadth across the entire field and depth in the area of specialty. Graduates frequently pursue careers in research and development. A part-time program is possible.

Research Project (18 credits)
- ECSE 651 (1) M.Eng. Project 1
- ECSE 652 (2) M.Eng. Project 2
- ECSE 653 (3) M.Eng. Project 3
- ECSE 654 (4) M.Eng. Project 4
- ECSE 655 (4) M.Eng. Project 5
- ECSE 656 (4) M.Eng. Project 6

Students who choose the non-thesis option must register for the project courses during the three required terms of residency.

Complementary Courses (27 credits)
27 credits of 500-, 600-, or 700-level courses, of which no more than 9 credits may be outside the Department.
* Non-departmental courses require Departmental approval. Students may be allowed to take more than 9 credits of non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

6.11.6.7 Doctor of Philosophy (Ph.D.) Electrical Engineering

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- ECSE 701 (0) Ph.D. Qualifying Examination
- ECSE 702 (0) Ph.D. Research Plan Proposal
- ECSE 703 (0) Doctoral Research Seminar

In addition to the successful completion of the required courses above, students must complete the courses prescribed by the student's Supervisory Committee.

6.11.7 Mechanical Engineering

6.11.7.1 Location
Department of Mechanical Engineering
Macdonald Engineering Building
817 Sherbrooke Street West, Room MD-270
Montreal QC H3A 0C3
Canada
Telephone: 514-398-8869 or 514-398-6281
Fax: 514-398-7365
Email: grad.mecheng@mcgill.ca
6.11.7.2 About Mechanical Engineering

Mechanical engineers are traditionally concerned with the conception, design, implementation, and operation of mechanical systems. Common fields of work include aerospace, energy, manufacturing, machinery, and transportation. Due to the broad nature of the discipline, there is usually a high demand for mechanical engineers with advanced training.

The Department includes more than 30 faculty members and 200 graduate students, and is housed primarily within the recently renovated Macdonald Engineering building. The Department contains state-of-the-art experimental facilities (including a major wind tunnel facility) and has extensive computational facilities. Professors within the Department collaborate widely with professors in other units, often through research centres including the Centre for Intelligent Machines (CIM); the McGill Institute for Advanced Materials (MIAM); and the Montreal Neurological Institute and Hospital (MNI). The research interests within the Department are very broad and fall largely within the following seven areas:

- Aerodynamics and fluid mechanics
- Bioengineering
- Combustion and energy systems
- Design and manufacturing
- Dynamics and control
- Materials and structures
- Vibrations, acoustics, and fluid-structure

Within these areas, specific topics of research are given in the following:

**Aerodynamics and fluid mechanics**
Experimental fluid mechanics and aerodynamics, aeroelasticity, and aeroacoustics; theoretical fluid mechanics; turbulence; mixing in turbulent flows; fluid flow control; fluid-structure interactions; computational fluid dynamics, multidisciplinary optimization, and computer flow visualization; heat transfer; combustion, shock wave physics, energetic materials, high-speed reacting flows, hypersonic propulsion, and alternative fuels.

**Bioengineering**
Biomechanics, biomaterials, blood and respiratory flows, mechanics of soft tissues, cardiovascular devices, image processing for medical diagnostics, voice production.

**Combustion and energy systems**
Combustion, shock wave physics, heat transfer, and compressible gas dynamics.

**Design and manufacturing**
Design theory and methodology, design optimization; biomimetics; machine tools and systems, manufacturing processes, and management and control; micro/nano machining; wear and comminution processes.

**Dynamics and control**
Multibody systems, legged and wheeled vehicles, compliant mechanisms, and kinematic geometry; tethered systems, lighter-than-air craft, and underwater vehicles; spacecraft dynamics and space robotics; modelling and simulation; fluid-structure interactions, nonlinear and chaotic dynamics; dynamics of bladed assemblies.

**Materials and structures**
Composite materials: structural design, analysis, manufacturing, and processing; micro/nano mechanics; MEMS/NEMS; adaptronic structures; thermomechanics, wave propagation, and computational mechanics.

**Vibrations, acoustics, and fluid-structure**
Vibrations, acoustics, and fluid-structure interaction.

**Programs Offered**
The Department offers programs of study leading to the M.Eng., M.Sc., and Ph.D. degrees in Mechanical Engineering. Both M.Eng. (Thesis) and M.Eng. (Non-Thesis) programs are offered.

There are several options for completing master’s degrees that do not involve the completion of a thesis. The M.Eng. (Non-Thesis) program has more extensive course requirements and will appeal to students who desire to gain both a broad understanding of subjects within Mechanical Engineering as well as in-depth information in a specific area. Two other non-thesis master’s degree options are described below.

**section 6.11.7.5: Master of Engineering (M.Eng.) Mechanical Engineering (Thesis) (45 credits)**

The M.Eng. (Thesis) program requires the completion of technical complementary courses, a seminar course, and a thesis. The thesis involves advanced research supervised by one or more professors who are internationally known in their field. This program prepares students for either an industrial research career or further academic research at the Ph.D. level.
section 6.11.7.6: Master of Engineering (M.Eng.) Mechanical Engineering (Non-Thesis) (45 credits)

Students in this program must complete required courses in addition to several complementary courses and a seminar course. They also complete a project that is less involved than a thesis, and may involve a limited research project or a technical or design study. Graduates of this program are well-prepared for carrying out research and development in industry and may also proceed to further research at the Ph.D. level.

section 6.11.7.7: Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)

The M.Eng. Aerospace degree is offered to students who wish to specialize in the general area of aerospace engineering. This degree is given in conjunction with Concordia University, École Polytechnique, Université Laval, Université de Sherbrooke, and École de Technologie Supérieure. Students registered at McGill are required to take two courses from two other institutions.

The aerospace industry is strongly established in Quebec. Representatives of the aerospace industry therefore requested that measures be taken to provide for qualified scientists in aerospace. Five universities offering courses in engineering came together to offer a master’s degree program in the field of aeronautics and space technology. This program is offered to students who wish to specialize in these disciplines. The industry’s participation is a special feature of this program. The universities and the participating industries, with the cooperation of the Centre of Aerospace Manpower Activities in Quebec (CAMAQ), have formed a Coordinating Committee, CIMGAS, to arrange for industrial internships and case study courses for the students and to implement specific program developments to meet the needs of the industry.

The M.Eng. (Aerospace) program requires both coursework and an “Industrial Stage” (i.e., engineering work in an aerospace industry) of four months. Enrolment is limited to the number of industrial stages available, so admission to the program is typically quite competitive. While intended to be a full-time program, the M.Eng. Aerospace program may be completed on a part-time basis over a maximum of five years. By the time of completion of the program, graduates are extremely well-prepared to enter into a career in the aerospace industry.

Depending on their background, students would specialize in one of the four areas:

1. Aeronautics and Space Engineering
2. Avionics and Control
3. Aerospace Materials and Structures
4. Virtual Environment

section 6.11.7.8: Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

This program is currently not offered

The Master in Manufacturing Management (M.M.M.) program attracts business professionals from around the world who wish to pursue a career in the effective management of global operations and supply chain. It is a professionally-oriented graduate program offered jointly through the Faculties of Engineering and Management, aimed at those candidates with engineering or science backgrounds.

In just eleven months of academic studies, M.M.M. students sharpen their expertise in supply chain and operations through an intensive program that includes:

- A challenging curriculum
- Extensive industrial interaction
- Innovative research projects

Additionally, students are exposed to the latest trends and developments in management and participate in professional development seminars to leverage their communication and leadership skills. After less than one year of studies, participants complete a paid work term at an industrial location. This is a unique opportunity to work on a real-world project with an M.M.M. partner company in North America.

section 6.11.7.9: Master of Science (M.Sc.) Mechanical Engineering (Thesis) (45 credits)

Please consult the Department for more information on this program.

section 6.11.7.10: Doctor of Philosophy (Ph.D.) Mechanical Engineering

In the Ph.D. program, students are required to demonstrate a significant new contribution to their field of research, as documented in an externally reviewed thesis. The research is carried out under the supervision of professors who are leaders in their field. Since research in Mechanical Engineering is often interdisciplinary in nature, it is common for Ph.D. students to have a co-supervisor in addition to their principle supervisor. Graduates from this program typically proceed to careers in research in either industrial or academic environments.

6.11.7.3 Mechanical Engineering Admission Requirements and Application Procedures

6.11.7.3.1 Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply. Candidates who come from other institutions are expected to have an academic background equivalent to the undergraduate curriculum in mechanical engineering at McGill or to make up any deficiencies in a Qualifying year.
Applicants to the M.Eng. (Thesis) program must hold an undergraduate degree (or equivalent) in Engineering. Applicants who hold an undergraduate degree in a non-Engineering discipline—typically the Physical Sciences—may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

Applicants to the M.Eng. (Non-Thesis) program must hold an undergraduate degree (or equivalent) in Mechanical Engineering.

Applicants to the Ph.D. program must have successfully completed a master's degree program (or equivalent) in Engineering or the Physical Sciences. In exceptional circumstances, students with outstanding performance at the bachelor's level may be offered direct entry into the Ph.D. program (Ph.D. 1).

In the case of all programs, applicants must have successfully completed their prior degree(s) with a minimum CGPA equivalent to 3.3 on a scale of 4.0. Satisfaction of these minimum requirements does not guarantee admission. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit official results of either a TOEFL or an IELTS test. The minimum score required is 92 for the Internet-based TOEFL test, with each component score not less than 20, or a minimum overall band of 7.0 on the IELTS test.

6.11.7.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Please consult www.mcgill.ca/mecheng/grad for further details on required application documents.

6.11.7.3.2 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- two official Referee Letters
- Personal Statement – one page
- Curriculum Vitae – please include a list of publications, if relevant

6.11.7.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Mechanical Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

6.11.7.4 Mechanical Engineering Faculty

Chair
Meyer Nahon

Associate Chair (Curriculum Affairs)
David L. Frost

Associate Chair (Undergraduate Affairs)
Srikar T. Vengallatore

Associate Chair (Graduate Affairs)
François Barthelat

Director, M.Eng. Aerospace Program
Mathias Legrand
Emeritus Professors

Abdul M. Ahmed; B.Sc.(Dhaka), Ph.D.(McG.), ing. (Thomas Workman Emeritus Professor of Mechanical Engineering)


Romuald Knystautas; B.Eng., M.Eng., Ph.D.(McG.), ing.


Stuart J. Price; B.Sc., Ph.D.(Brist.), P.Eng.

Associate Professors (Post-Retirement)

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.Sc.(Ancona), Ph.D.(Bologna), F.A.S.M.E. (Canada Research Chair)

Bantwal R. Baliga; B.Tech.(I.I.T. Kanpur), M.Sc.(Case West.), Ph.D.(Minn.)

François Barthelat; M.Sc.(Roch.), Ph.D.(N'western)


Pascal Hubert; B.Eng., M.A.Sc.(École Poly., Montr.), Ph.D.(Br. Col.), ing. (Warner Graupe Professor)

Larry B. Lessard; B.Eng.(McG.), M.Eng., Ph.D.(Stan.), ing.


Luc Mongeau; B.Sc., M.Sc.(École Poly., Montr.), Ph.D.(Penn St.), ing. (Canada Research Chair)

Rosaire Mongrain; B.Sc., M.Sc.(Montr.), Ph.D.(École Poly., Montr.), ing. (William Dawson Scholar)

Meyer Nahon; B.Sc.(Qu.), M.Sc.(Tor.), Ph.D.(McG.), ing., A.F.A.I.A.A.

Damiano Pasini; M.Sc.(Pavia), Ph.D.(Brist.), ing.

Inna Sharf; B.A.Sc., Ph.D.(Tor.)

Associate Professors

Jeffrey M. Bergthorson; B.Sc.(Manit.), M.Eng., Ph.D.(Calif. Tech.), P.Eng.

Andrew J. Higgins; B.Sc.(Ill.), M.S., Ph.D.(Wash.)

Michael Kokkolaras; Dipl.Eng.(TUM), Ph.D.(Rice)

Jozsef Kővesces; M.Sc.(U. Miskolc), Ph.D.(Hung. Acad. Sci.), ing.

Tim Lee; M.S.(Portland St.), Ph.D.(Idaho)

Laurent Mydlarski; B.Sc.(Wat.), Ph.D.(Cornell)

Siva Nadarajah; B.Sc.(Kansans), M.S., Ph.D.(Stan.)

Evgeny V. Timofeev; M.Sc., Ph.D.(S.T.U. St. Petersburg), Eng., A.F.A.I.A.A.

Srikar T. Vengallatore; B.Tech. (B.H.U), Ph.D.(MIT)

Assistant Professors


James R. Forbes; Ph.D.(Tor), B.Eng.(Wat.)

Mathias Legrand; M.Sc., Ph.D.(École Centrale, Nantes)

Jianyu Li; B.Eng.(Zhejiang), M.Sc., Ph.D.(Harv.)

Jovan Nedi; M.Eng., Ph.D.(Imperial Coll.)
Assistant Professors
Yaoyao Fiona Zhao; B.Eng.(B.I.T.), M.Eng., Ph.D.(Auck.)

Adjunct Professors
Farbod Alijani
Helmi Attia
Olivier Bertrand
Gilles Bourque
Luca Cortelezzi
Farhang Daneshmand
Xinyu Liu
Mouhab Meshreki
Alireza Najafi-Yazdi
Aditya Paranjape
Peter Radziszewski
Gilles Soulez

Course Lecturers
Marwan Kanaan
Richard Klopp
Alexei Morozov
Amar Sabih

Associate Members
Jake Barralet
Renzo Ceccere
Allen Ehrlicher
Dan Nicolau
Abdolhamid Akbarzadeh Shafaroud

6.11.7.5 Master of Engineering (M.Eng.) Mechanical Engineering (Thesis) (45 credits)
Applicants who hold an undergraduate degree in a non-Engineering discipline – typically the Physical Sciences – may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

Thesis Courses (28 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 691*</td>
<td>3</td>
<td>M.Eng. Thesis Literature Review</td>
</tr>
<tr>
<td>MECH 692</td>
<td>4</td>
<td>M.Eng. Thesis Research Proposal</td>
</tr>
<tr>
<td>MECH 693</td>
<td>3</td>
<td>M.Eng. Thesis Progress Report 1</td>
</tr>
<tr>
<td>MECH 694</td>
<td>6</td>
<td>M.Eng. Thesis Progress Report 2</td>
</tr>
<tr>
<td>MECH 695</td>
<td>12</td>
<td>M.Eng. Thesis</td>
</tr>
</tbody>
</table>

* Note: MECH 691 must be taken in the first term of the student's program.

Required Courses
1 credit:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 609</td>
<td>1</td>
<td>Seminar</td>
</tr>
</tbody>
</table>
Complementary Courses (16 credits)
A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering or Faculty of Science, at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

6.11.7.6 Master of Engineering (M.Eng.) Mechanical Engineering (Non-Thesis) (45 credits)

Research Project (13 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 603</td>
<td>(9)</td>
<td>M. Eng. Project 1</td>
</tr>
<tr>
<td>MECH 604</td>
<td>(3)</td>
<td>M. Eng. Project 2</td>
</tr>
<tr>
<td>MECH 609</td>
<td>(1)</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

Note: Industrial liaison is encouraged in these courses taken near the end of the program.

Required Courses (16 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 605</td>
<td>(4)</td>
<td>Applied Mathematics I</td>
</tr>
<tr>
<td>MECH 610</td>
<td>(4)</td>
<td>Fundamentals of Fluid Dynamics</td>
</tr>
<tr>
<td>MECH 632</td>
<td>(4)</td>
<td>Advanced Mechanics of Materials</td>
</tr>
<tr>
<td>MECH 642</td>
<td>(4)</td>
<td>Advanced Dynamics</td>
</tr>
</tbody>
</table>

Complementary Courses (16 credits)
A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering may be selected by the student, based on interest and the choice of area of concentration. Courses at the graduate level from other faculties may also be taken, with prior approval from the student’s project supervisor and the Graduate Program Director. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

6.11.7.7 Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)
The M.Eng. Aerospace Degree is offered to the students who wish to specialize in the general area of aerospace engineering. This degree is given in conjunction with Concordia University, École Polytechnique, Université Laval, Université de Sherbrooke, and École de Technologie Supérieure. Students registered at McGill are required to take two courses from two other institutions.
Depending on their background, students would specialize in one of the four areas:
1. Aeronautics and Space Engineering
2. Avionics and Control
3. Aerospace Materials and Structures
4. Virtual Environment

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 687</td>
<td>(3)</td>
<td>Aerospace Case Studies</td>
</tr>
<tr>
<td>MECH 688</td>
<td>(6)</td>
<td>Industrial Stage</td>
</tr>
</tbody>
</table>

Complementary Courses (36 credits)
The other courses, depending on the area of concentration, will be chosen in consultation with an Aerospace Engineering Adviser. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

6.11.7.8 Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

**This program is currently not offered.**

We are in the process of revising the curriculum of the program to enhance its quality and relevance, while keeping the focus still on designing and managing global supply chains for manufacturing and service organizations.

Required Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 524</td>
<td>(3)</td>
<td>Computer Integrated Manufacturing</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>MECH 627</td>
<td>(9)</td>
<td>Manufacturing Industrial Stage</td>
</tr>
<tr>
<td>MECH 628</td>
<td>(2)</td>
<td>Manufacturing Case Studies</td>
</tr>
<tr>
<td>MECH 629</td>
<td>(1)</td>
<td>Manufacturing Industrial Seminar</td>
</tr>
<tr>
<td>MGSC 602</td>
<td>(3)</td>
<td>Strategic Management of Operations</td>
</tr>
<tr>
<td>MGSC 603</td>
<td>(3)</td>
<td>Logistics Management</td>
</tr>
<tr>
<td>MGSC 605</td>
<td>(3)</td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>MGSC 608</td>
<td>(3)</td>
<td>Data Decisions and Models</td>
</tr>
<tr>
<td>MGSC 631</td>
<td>(3)</td>
<td>Analysis: Production Operations</td>
</tr>
</tbody>
</table>

**Complementary Courses (26 credits)**

8 credits from General Business & Management Training
6 credits from General Business & Management
12 credits from Manufacturing & Supply Chain

**General Business & Management Training (8 credits)**

8 credits from Group A or Group B:

**Group A**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 651</td>
<td>(4)</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>(4)</td>
<td>Value Creation</td>
</tr>
</tbody>
</table>

**Group B**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 611</td>
<td>(2)</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>MGCR 612</td>
<td>(2)</td>
<td>Organizational Behaviour</td>
</tr>
<tr>
<td>MGCR 616</td>
<td>(2)</td>
<td>Marketing</td>
</tr>
<tr>
<td>MGCR 641</td>
<td>(2)</td>
<td>Elements of Modern Finance 1</td>
</tr>
</tbody>
</table>

**General Business & Management**

6 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 624</td>
<td>(3)</td>
<td>Management Accounting: Planning &amp; Control</td>
</tr>
<tr>
<td>INDR 603</td>
<td>(3)</td>
<td>Industrial Relations</td>
</tr>
<tr>
<td>ORGB 625</td>
<td>(3)</td>
<td>Managing Organizational Change</td>
</tr>
<tr>
<td>ORGB 632</td>
<td>(3)</td>
<td>Managing Teams in Organizations</td>
</tr>
<tr>
<td>ORGB 633</td>
<td>(3)</td>
<td>Managerial Negotiations</td>
</tr>
<tr>
<td>ORGB 640</td>
<td>(3)</td>
<td>The Art of Leadership</td>
</tr>
<tr>
<td>ORGB 685</td>
<td>(3)</td>
<td>Cross Cultural Management</td>
</tr>
</tbody>
</table>

**Manufacturing & Supply Chain**

12 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 526</td>
<td>(3)</td>
<td>Manufacturing and the Environment</td>
</tr>
<tr>
<td>MECH 528</td>
<td>(3)</td>
<td>Product Design</td>
</tr>
<tr>
<td>MECH 529</td>
<td>(3)</td>
<td>Discrete Manufacturing Systems</td>
</tr>
<tr>
<td>MGSC 578</td>
<td>(3)</td>
<td>Simulation of Management Systems</td>
</tr>
</tbody>
</table>
6.11.7.9 Master of Science (M.Sc.) Mechanical Engineering (Thesis) (45 credits)

Applicants who hold an undergraduate degree in a non-Engineering discipline – typically the Physical Sciences – may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

**Thesis Courses (28 credits)**

- MECH 691* (3) M.Eng. Thesis Literature Review
- MECH 693 (3) M.Eng. Thesis Progress Report 1
- MECH 695 (12) M.Eng. Thesis

* Note: MECH 691 must be completed in the first term of the student's program.

**Required Course**

1 credit:

- MECH 609 (1) Seminar

**Complementary Courses (16 credits)**

A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering or Faculty of Science, at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

6.11.7.10 Doctor of Philosophy (Ph.D.) Mechanical Engineering

Candidates normally register for the M.Eng. degree in the first instance. However, in exceptional cases where the research work is proceeding very satisfactorily, or where the equivalent of the M.Eng. degree has been completed at another university, candidates may be permitted to proceed directly to the Ph.D. degree without submitting a master's thesis as long as they have satisfied the course requirements for the M.Eng. degree.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

- MECH 700 (0) Ph.D. Literature Review
- MECH 701 (0) Ph.D. Thesis Proposal
- MECH 702 (0) Ph.D. Comprehensive Preliminary Oral Examination

6.11.8 Mining and Materials Engineering

6.11.8.1 Location

Department of Mining and Materials Engineering
M.H. Wong Building
3610 University Street
Montreal QC H3A 0C5
Canada
Email: barbara.hanley@mcgill.ca
Website: www.mcgill.ca/minmat

Mining Engineering
6.11.8.2 About Mining and Materials Engineering

Graduate programs leading to M.Eng., M.Sc., and Ph.D. research degrees are available in the areas of:

- Geomechanics;
- Mining Environments;
- Strategic Mine Planning and Optimization;
- Stochastic Modelling;
- Operations Research;
- Mineral Economics;
- Materials Handling;
- Process Metallurgy;
- Computational Thermodynamics;
- Hydrometallurgy;
- Effluent and Waste Treatment;
- Mineral Processing;
- Metal Casting and CFD Modelling;
- Surface Engineering;
- Additive Manufacturing and Powder Metallurgy;
- Ceramics;
- Electron Microscopy;
- Automotive and Aerospace Materials;
- Biomaterials;
- Nanomaterials;
- Nanoelectronic Materials;
- Multiscale Modelling of Materials;
- Electronic and Solar Cell Materials.

Course programs leading to the M.Eng. (Project) degree in Mining or Materials Engineering and the Graduate Diploma in Mining Engineering are also available.

Special programs are available for those holding degrees in subjects other than Materials or Mining Engineering (e.g., Chemical, Civil, or Mechanical Engineering, Chemistry, Physics, Geology).

Research Degrees

section 6.11.8.5: Master of Engineering (M.Eng.) Materials Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Materials Engineering (Thesis) program.

section 6.11.8.6: Master of Engineering (M.Eng.) Mining Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Mining Engineering (Thesis) program.

section 6.11.8.7: Master of Engineering (M.Eng.) Mining and Materials Engineering (Thesis) (45 credits)

The M.Eng. (Thesis) degree is open to graduates holding the B.Eng. degree or its equivalent in Materials Engineering, Mining Engineering, or other related engineering fields.

section 6.11.8.8: Master of Science (M.Sc.) Materials Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Sc. Materials Engineering (Thesis) program.
section 6.11.8.9: Master of Science (M.Sc.) Mining Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Sc. Mining Engineering (Thesis) program.

section 6.11.8.10: Master of Science (M.Sc.) Mining and Materials Engineering (Thesis) (45 credits)

The M.Sc. (Thesis) degree is open to graduates holding the B.Sc. degree in Chemistry, Materials Science, Physics, Geology, or related fields.

Direct Transfer from a Master's to a Ph.D. – Students enrolled in a master's program (thesis) may transfer into the Ph.D. program without obtaining a master's degree if they have:

1. an excellent academic standing for their undergraduate degree;
2. been in the master's program for less than 12 months;
3. passed with the minimum CGPA of 3.6 at least three of the required master's courses, and given one seminar with a minimum grade of A-;
4. made good progress with their research;
5. obtained a strong letter of recommendation from their supervisor.

Direct Entry from B.Eng. to Ph.D.

Exceptional B.Eng. and B.Sc. graduates may be admitted directly to the Ph.D. program. The Ph.D. 1 students admitted through this process are required to complete at least four graduate-level courses.

M.Eng. (Project) Degrees

section 6.11.8.11: Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Materials Engineering (Project) program.

section 6.11.8.12: Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Mining Engineering (Project) program.

section 6.11.8.13: Master of Engineering (M.Eng.) Mining and Materials Engineering (Non-Thesis) (45 credits)

The Master of Engineering (Project) program (Materials option) is primarily designed to train people with appropriate engineering or scientific backgrounds to allow them to work effectively in the metals and materials industries. The Master of Engineering (Project) program (Mining option) is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics.

section 6.11.8.14: Master of Engineering (M.Eng.) Mining and Materials Engineering (Non-Thesis): Environmental Engineering (45 credits)

This interdepartmental graduate program leads to a master's degree in Environmental Engineering. The objective of the program is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. This non-thesis degree falls within the M.Eng. and M.Sc. programs, which are offered in the Departments of Bioresource, Chemical, Civil, and Mining and Materials Engineering. The Environmental Engineering program emphasizes interdisciplinary fundamental knowledge, practical perspectives, and awareness of environmental issues through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University. Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in the program.

section 6.11.8.15: Doctor of Philosophy (Ph.D.) Materials Engineering (90 credits)

Please consult the Department for more information about the Ph.D.

section 6.11.8.16: Doctor of Philosophy (Ph.D.) Mining Engineering (90 credits)

Please consult the Department for more information about the Ph.D.

section 6.11.8.17: Doctor of Philosophy (Ph.D.) Mining and Materials Engineering

Please consult the Department for more information about the Ph.D.
This program normally requires one academic year of full-time study to complete. Candidates are required to take an integrated group of courses based on their academic background.

6.11.8.3 Mining and Materials Engineering Admission Requirements and Application Procedures

6.11.8.3.1 Admission Requirements

The Graduate Diploma in Mining Engineering is open to graduates with suitable academic standing in any branch of engineering or science. It is designed to provide a sound technical mining engineering background to candidates intending to work in the minerals industry.

The M.Eng. (Thesis) degree is open to graduates holding the B.Eng. degree or its equivalent in Materials Engineering, Mining Engineering, or other related engineering fields.

The M.Sc. (Thesis) degree is open to graduates holding the B.Sc. degree in Chemistry, Materials Science, Physics, Geology, or related fields.

The Master of Engineering (Project) (Materials option) is primarily designed to train people with appropriate engineering or scientific backgrounds to allow them to work effectively in the metals and materials industries. Industrial experience is favourably viewed for entrance into the program, but is not considered a necessity.

The Master of Engineering (Project) (Mining option) is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics. Students without this academic training must follow a Qualifying term. Industrial experience is favourably viewed for entrance into the program, but is not considered a necessity.

The Master of Engineering (Project) (Environmental Engineering option) is also offered.

Ph.D. degree applicants may either be “directly transferred” from the M.Eng. or M.Sc. program (see below) or hold an acceptable master’s degree in Materials Engineering, Mining Engineering, or other related fields, or under exceptional circumstances may be admitted directly from the bachelor’s degree. In the latter case they are admitted to Ph.D. 1 as opposed to those holding a master’s degree that are admitted to Ph.D. 2.

6.11.8.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

6.11.8.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Mining and Materials Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 16</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 16</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>May 15</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

6.11.8.4 Mining and Materials Engineering Faculty

**Department Chair**

George P. Demopoulos

**Associate Chair, Materials Engineering Program**

Richard Chromik

**Associate Chair & Graduate Program Director**

Mathieu Brochu
Graduate Program Coordinator
Barbara Hanley

**Director, Mining Engineering Program**
Hani S. Mitri

**Emeritus Professors**
- John E. Gr鲁zeski; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.), Eng., F.C.I.M., F.A.S.M. (*Gerald G. Hatch Emeritus Professor*)

**Post-Retirement Professor**

**Professors**
- George P. Demopoulos; Dipl.Eng.(NTU Athens), M.Sc., Ph.D.(McG.), Eng., F.C.I.M. (*Gerald G. Hatch Professor*)
- Roussos Dimitrakopoulos; B.Sc.(Thessaloniki), M.Sc.(Alta.), Ph.D.(École Poly., Montr.) (*Canada Research Chair I*)
- Raynald Gauvin; B.Eng., Ph.D.(Montr.), Eng. (*Henry Birks Professor*)
- Faramarz (Ferri) P. Hassani; B.Sc., Ph.D.(Nott.) (*George Boyd Webster Professor*)
- Hani S. Mitri; B.Sc.(Cairo), M.Eng., Ph.D.(McM.), Eng.
- Stephen Yue; B.Sc., Ph.D.(Leeds), P.Eng. (*James McGill Professor*) (*Lorne Trottier Chair in Aerospace Engineering*)

**Associate Professors**
- Kirk Bevan; B.Eng.(Western), Ph.D.(Purd.), P.Eng. (*on sabbatical July to Dec. 2018*)
- Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.), Eng. (*Hatch Faculty Fellow*)
- Marta Cerruti; B.Sc., Ph.D., Laurea in Chemistry(Torino), P.Eng. (*Canada Research Chair III*)
- Richard Chromik; B.Sc.(Penn. St.), M.Sc., Ph.D.(SUNY/Binghamton), P.Eng. (*Hatch Faculty Fellow*)
- Mainul Hasan; B.Eng.(Dhaka), M.Eng.(Dhahran), Ph.D.(McG.) (*on sabbatical Jan. to June 2019*)
- Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.), P.Eng.
- Mihriban Pekguleryuz; B.Sc., M.Eng.(Flor.), Ph.D.(McG.), Eng.
- Nathaniel Quitoriano; B.S.(Calif., Berk.), Ph.D.(MIT), P.Eng.
- Jun Song; B.Sc.(USTC), M.Sc., Ph.D.(Princ.), P.Eng. (*on sabbatical July to Dec. 2018*)
- Kristian Waters; M.Eng., M.Sc.(UMIST), Ph.D.(Birm.), P.Eng.

**Assistant Professor**
Agus Pulung Sasmito; B.Eng.(Univ. Gadjah Mada), Ph.D.(NUS)

**Adjunct Professors**
Michel Gamache, Xueqiu He, Ahmad Hemami, In-Ho Jung, Alessandro Navarra, Jan Nesset, Marco Quirion, Karim Zaghib

**Faculty Lecturer**
Florence Paray; B.Eng.(CSP), M.Eng., Ph.D.(McG.), Eng.

**Course Lecturers – Mining**
Yves Buro
** NEW PROGRAM **

The M.Eng. in Materials Engineering (Thesis) is a research-oriented program that focuses on research skills and knowledge of materials engineering through coursework and a research thesis under the supervision of a Faculty member (professor). A specific emphasis is placed on research methods as well as fundamentals. As such, the program is the more suitable option for those whose primary interest is research. Graduates of this degree either pursue a Ph.D. or work in industry. The M.Eng. (Thesis) degree is open to graduates holding a B.Eng. degree or its equivalent in Materials Engineering or other related engineering field.

** Master of Engineering (M.Eng.) Materials Engineering (Thesis) (45 credits) **

Thesis Courses (27 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<tr>
<td>MIME 690</td>
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<tr>
<td>MIME 691</td>
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<td>Thesis Research 5</td>
</tr>
<tr>
<td>MIME 695</td>
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Required Courses (9 credits)

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<tr>
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<tbody>
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<td>MIME 601</td>
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<td>Engineering Laboratory Practice</td>
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<tr>
<td>MIME 610D1</td>
<td>1.5</td>
<td>Master's Foundation Course</td>
</tr>
<tr>
<td>MIME 610D2</td>
<td>1.5</td>
<td>Master's Foundation Course</td>
</tr>
<tr>
<td>MIME 670</td>
<td>6</td>
<td>Research Seminar 1</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

9 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

** NEW PROGRAM **

The M.Eng. in Mining Engineering (Thesis) is a research-oriented degree that focuses on skills and knowledge of mining engineering through coursework and a research thesis under the supervision of a Faculty member (professor). Specific emphasis is placed on research methods as well as fundamentals; as such, the program is the more suitable option for those whose primary interest is research. Graduates of this degree either pursue a Ph.D. or work in industry. The M.Eng. (Thesis) degree is open to graduates holding the B.Eng. degree or its equivalent in Mining Engineering or other related engineering fields.

** Master of Engineering (M.Eng.) Mining Engineering (Thesis) (45 credits) **

Thesis Courses (27 credits)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Thesis Research 1</td>
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<tr>
<td>MIME 691</td>
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<tr>
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<td>MIME 694</td>
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<td>Thesis Research 5</td>
</tr>
<tr>
<td>MIME 695</td>
<td>3</td>
<td>Thesis Research 6</td>
</tr>
</tbody>
</table>
Required Course (6 credits)

MIME 601 (0) Engineering Laboratory Practice

6 credits from the following:

MIME 672D1 (3) Rock Mechanics Seminar
MIME 672D2 (3) Rock Mechanics Seminar
MIME 673 (6) Mining Engineering Seminar

* Note: Students must register for MIME 672D1 and MIME 672D2 in consecutive terms.

Complementary Courses (12 credits)

12 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

6.11.8.7 Master of Engineering (M.Eng.) Mining and Materials Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)

MIME 690 (6) Thesis Research 1
MIME 691 (3) Thesis Research 2
MIME 692 (6) Thesis Research 3
MIME 693 (3) Thesis Research 4
MIME 694 (6) Thesis Research 5
MIME 695 (3) Thesis Research 6

Required Seminar (6 credits)

MIME 601 (0) Engineering Laboratory Practice

6 credits from the following courses:

MIME 670 (6) Research Seminar 1
MIME 672D1* (3) Rock Mechanics Seminar
MIME 672D2* (3) Rock Mechanics Seminar
MIME 673 (6) Mining Engineering Seminar

* Note: Students must register for MIME 672D1 and MIME 672D2 in consecutive terms.

Complementary Courses (12 credits)

12 credits at the 500-level or higher selected from within and/or outside the department in consultation with the student's supervisor and/or Advisory Committee.

6.11.8.8 Master of Science (M.Sc.) Materials Engineering (Thesis) (45 credits)

** NEW PROGRAM **

The M.Sc. in Materials Engineering (Thesis) is a research-oriented program that focuses on research skills and knowledge of materials engineering through coursework and a research thesis under the supervision of a Faculty member (professor). A specific emphasis is placed on research methods as well as fundamentals. As such, the program is the more suitable option for those whose primary interest is research. Graduates of this degree either pursue a Ph.D. or work in industry. The M.Sc. (Thesis) is for candidates with a Bachelor's degree in a relevant discipline other than Engineering, (ex: Science and Arts). Admitted students may be asked to take extra courses depending on their background.

Thesis Courses (27 credits)
**NEW PROGRAM**

The M.Sc. in Mining Engineering (Thesis) develops fundamental knowledge emphasizing practical applications and functional skills needed for solving mining engineering problems. This M.Sc. program is oriented towards individuals who intend to develop a career in mining engineering research. The candidates with a Bachelor’s degree in a relevant discipline other than Engineering (ex: Science and Arts) may be accepted into the M.Sc. program.

## Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 690</td>
<td>(6)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>MIME 691</td>
<td>(3)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>MIME 692</td>
<td>(6)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>MIME 693</td>
<td>(3)</td>
<td>Thesis Research 4</td>
</tr>
<tr>
<td>MIME 694</td>
<td>(6)</td>
<td>Thesis Research 5</td>
</tr>
<tr>
<td>MIME 695</td>
<td>(3)</td>
<td>Thesis Research 6</td>
</tr>
</tbody>
</table>

## Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 601</td>
<td>(0)</td>
<td>Engineering Laboratory Practice</td>
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</table>

6 credits from the following:

<table>
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<tr>
<th>Course</th>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MIME 672D1*</td>
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<td>Rock Mechanics Seminar</td>
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<tr>
<td>MIME 672D2*</td>
<td>(3)</td>
<td>Rock Mechanics Seminar</td>
</tr>
<tr>
<td>MIME 673</td>
<td>(6)</td>
<td>Mining Engineering Seminar</td>
</tr>
</tbody>
</table>

* Note: Students must register for MIME 672D1 and MIME 672D2 in consecutive terms.

## Complementary Courses (12 credits)

12 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student’s supervisor and/or Advisory Committee.
### 6.11.8.10 Master of Science (M.Sc.) Mining and Materials Engineering (Thesis) (45 credits)

#### Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 690</td>
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<td>Thesis Research 1</td>
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<tr>
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#### Required Seminar (6 credits)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MIME 601</td>
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<td>Engineering Laboratory Practice</td>
</tr>
</tbody>
</table>

6 credits from the following courses:

* Note: Students must register for MIME 672D1 and MIME 672D2 in consecutive terms.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>MIME 670</td>
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<td>Research Seminar 1</td>
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<tr>
<td>MIME 672D1*</td>
<td>3</td>
<td>Rock Mechanics Seminar</td>
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<tr>
<td>MIME 672D2*</td>
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<td>Rock Mechanics Seminar</td>
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<tr>
<td>MIME 673</td>
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<td>Mining Engineering Seminar</td>
</tr>
</tbody>
</table>

#### Complementary Courses (12 credits)

12 credits at the 500 level or higher from within and/or outside the department in consultation with the student's supervisor and/or Advisory Committee.

### 6.11.8.11 Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis) (45 credits)

**NEW PROGRAM**

The Master of Engineering in Materials Engineering: Non-Thesis program is primarily designed to train people with appropriate engineering or scientific background to allow them to work effectively in the materials industries.

#### Research Project (15 credits)

<table>
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<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
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#### Required Courses (6 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MIME 601</td>
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<td>Engineering Laboratory Practice</td>
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<tr>
<td>MIME 670</td>
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</table>

#### Complementary Courses (24 credits)

12 credits of MIME courses at the 500 level or higher.

12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Adviser.

**NEW PROGRAM**

### 6.11.8.12 Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis) (45 credits)

**NEW PROGRAM**
The Master of Engineering in Mining: Non-Thesis program is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics.

**Research Project (15 credits)**

<table>
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<tr>
<th>Course</th>
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<th>Description</th>
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<td>MIME 629</td>
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<td>Mineral Engineering Project 2</td>
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<tr>
<td>MIME 634</td>
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**Required Courses (6 credits)**

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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
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<td>Engineering Laboratory Practice</td>
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<tr>
<td>MIME 673</td>
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<td>Mining Engineering Seminar</td>
</tr>
</tbody>
</table>

**Complementary (24 credits)**

12 credits of MIME courses at the 500 level or higher.
12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Adviser.

6.11.8.13 Master of Engineering (M.Eng.) Mining and Materials Engineering (Non-Thesis) (45 credits)

Students registered in this program specialize either in Mining Engineering or Materials Engineering.

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 628</td>
<td>6</td>
<td>Mineral Engineering Project 1</td>
</tr>
<tr>
<td>MIME 629</td>
<td>6</td>
<td>Mineral Engineering Project 2</td>
</tr>
<tr>
<td>MIME 634</td>
<td>3</td>
<td>Mineral Engineering Project 3</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 601</td>
<td>0</td>
<td>Engineering Laboratory Practice</td>
</tr>
</tbody>
</table>

AND

6 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 670</td>
<td>6</td>
<td>Research Seminar 1</td>
</tr>
<tr>
<td>MIME 673</td>
<td>6</td>
<td>Mining Engineering Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (24 credits)**

12 credits of MIME courses at the 500 level or higher.
12 credits of courses at the 500 level or higher from within and/or outside the department in consultation with the Program Adviser.

6.11.8.14 Master of Engineering (M.Eng.) Mining and Materials Engineering (Non-Thesis): Environmental Engineering (45 credits)

Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in this program.

**Research Project (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 628</td>
<td>6</td>
<td>Mineral Engineering Project 1</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE 591</td>
<td>3</td>
<td>Environmental Bioremediation</td>
</tr>
</tbody>
</table>
CIVE 615  (3)  Environmental Engineering Seminar

**Complementary Courses (22 credits)**
(minimum 22 credits)

**Data Analysis Course**
One of the following courses:
- AEMA 611  (3)  Experimental Designs 1
- CIVE 555  (3)  Environmental Data Analysis
- PSYC 650  (3)  Advanced Statistics 1

**Toxicology Course**
One of the following courses:
- OCCH 612  (3)  Principles of Toxicology
- OCCH 616  (3)  Occupational Hygiene

**Water Pollution Engineering Course**
One of the following courses:
- CIVE 651  (4)  Theory: Water / Wastewater Treatment
- CIVE 652  (4)  Biological Treatment: Wastewaters
- CIVE 660  (4)  Chemical and Physical Treatment of Waters

**Air Pollution Engineering Course**
One of the following courses:
- CHEE 592  (3)  Industrial Air Pollution Control
- MECH 534  (3)  Air Pollution Engineering

**Soil and Water Quality Management Course**
One of the following courses:
- BREE 533  (3)  Water Quality Management
- CIVE 686  (4)  Site Remediation

**Environmental Impact Course**
One of the following courses:
- GEOG 501  (3)  Modelling Environmental Systems
- GEOG 551  (3)  Environmental Decisions

or an approved 500-, 600-, or 700-level alternative.

**Environmental Policy Course**
- URBP 506  (3)  Environmental Policy and Planning

or an approved 500-, 600-, or 700-level alternative.

**Elective Courses (11 credits)**
Another project course and/or Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval of the Department.

The relevant Project course in Mining and Materials Engineering is the following:

MIME 629 (6) Mineral Engineering Project 2

6.11.8.15 Doctor of Philosophy (Ph.D.) Materials Engineering (90 credits)

** NEW PROGRAM **

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department, selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course, and take a preliminary examination within their first year of Ph.D. study.

The candidate must submit an acceptable thesis based upon successfully completed research and must satisfy the examiners in an oral examination of the thesis.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (9 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 601</td>
<td>0</td>
<td>Engineering Laboratory Practice</td>
</tr>
<tr>
<td>MIME 701</td>
<td>0</td>
<td>Ph.D. Thesis Research Proposal</td>
</tr>
<tr>
<td>MIME 710D1</td>
<td>1.5</td>
<td>Ph.D. Foundation Course</td>
</tr>
<tr>
<td>MIME 710D2</td>
<td>1.5</td>
<td>Ph.D. Foundation Course</td>
</tr>
<tr>
<td>MIME 771</td>
<td>6</td>
<td>Research Seminar 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 credits of courses at the 500 level or higher, approved by their supervisor.

6.11.8.16 Doctor of Philosophy (Ph.D.) Mining Engineering (90 credits)

** NEW PROGRAM **

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department, selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course and, take a preliminary examination within their first year of Ph.D. study.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 601</td>
<td>0</td>
<td>Engineering Laboratory Practice</td>
</tr>
<tr>
<td>MIME 701</td>
<td>0</td>
<td>Ph.D. Thesis Research Proposal</td>
</tr>
<tr>
<td>MIME 776</td>
<td>6</td>
<td>Research Seminar 3</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 credits of courses at the 500 level or higher, approved by their supervisor.
6.11.8.17 Doctor of Philosophy (Ph.D.) Mining and Materials Engineering

A candidate for this degree must pass a minimum of two courses assigned by the Department. These are selected on the basis of the student's previous academic training and research interests. The candidate must also pass a safety training course in the first year of his/her Ph.D. registration. The candidate is required to participate in an appropriate Research Seminar course and is expected to take a preliminary examination within the first year of his/her Ph.D. registration.

The candidate must submit an acceptable thesis based upon successfully completed research and must satisfy the examiners in an oral examination of the thesis.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

6.11.8.18 Graduate Diploma (Gr. Dip.) Mining Engineering (30 credits)

Required Course (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIME 601</td>
<td>(0)</td>
<td>Engineering Laboratory Practice</td>
</tr>
<tr>
<td>MIME 673</td>
<td>(6)</td>
<td>Mining Engineering Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (24 credits)

24 credits of courses at the 500 level or higher selected from within and/or outside the department in consultation with the Program Adviser.

6.11.9 Urban Planning

6.11.9.1 Location

School of Urban Planning
Macdonald Harrington Building, Room 400
815 Sherbrooke Street West
Montreal QC H3A 0C2
Canada
Telephone: 514-398-4075
Fax: 514-398-8376
Email: admissions.planning@mcgill.ca
Website: www.mcgill.ca/urbanplanning

6.11.9.2 About Urban Planning

Urban planning is the process by which a community shapes its environment to meet its needs and realize its aspirations. Urban planning is also the profession of those who facilitate this process. While the practice of planning is as old as the cities themselves, the Urban Planning profession is only about a century old. In the late 19th and early 20th centuries, architects, landscape architects, engineers, government reformers, lawyers, public health specialists, and others joined forces to tackle the serious social and environmental problems of the industrial city. They created new techniques and institutions to improve living conditions and decision-making processes, with an eye to improving cities in terms of health, safety, efficiency, equity, beauty, identity, etc. Today, people who enter the profession come from diverse backgrounds as well, including the design professions, engineering and applied sciences, environmental and social studies, and other fields. Their challenge is to reinvent tools and procedures to meet new challenges in making cities socially, economically and environmentally sustainable. A key feature of planning education is learning to view issues in a multidisciplinary way, to manage processes of collaboration and of conflict, and to generate equitable and efficient solutions to complex problems of urban development.

McGill University was the first institution in Canada to offer a full-time planning program starting in 1947. In 1972, the School of Urban Planning was created as a separate academic unit within the Faculty of Engineering. It shares a heritage building with the School of Architecture, right on the main open space of McGill's Downtown campus. The primary objective of the Master of Urban Planning program is to educate professional urban planners for leadership in the public, private, and not-for-profit sectors. We rely in large part on project-based learning. The program also puts great emphasis on students doing policy-relevant research.

The School’s teaching and research activities pertain primarily to community planning; environmental policy and planning; international development planning; land-use planning and regulation; transportation and infrastructure planning; and urban design. These activities, which are conducted for the purpose of promoting better decision-making and improving human environments, often take place in partnership with other McGill departments (notably Architecture, Civil Engineering, Geography, and Law) and with units at other institutions in Montreal, across Canada, and abroad. The School uses Montreal and its region as its main teaching laboratory.
McGill's School of Urban Planning has a strong track record of contributing to the community and to the profession. It works with civil society as well as with government, at home and abroad, to understand urban challenges and to formulate policies and plans to meet them.

Master of Urban Planning (M.U.P.) Program

The Master of Urban Planning (M.U.P.) program is a two-year course of study that attracts students from Quebec, Canada, the U.S., and overseas. It is recognized by the Ordre des urbanistes du Québec (OUQ) and the Canadian Institute of Planners (CIP). Graduates may become full members of the OUQ and other provincial planning associations by completing their respective internship and examination requirements.

The M.U.P. program was designed with a strong emphasis on project-based learning, in particular through practical work done in teams in three planning studios. Approximately half of the curriculum is devoted to required courses that teach basic knowledge and skills in urban planning; the other half enables students to select courses or research projects that match their particular interests. Students participate actively in professors' research programs or define their individual research objectives, sometimes with their own research funding from major agencies (e.g., SSHRC, NSERC, FQRSC, FQRNT).

The core program provides a general education in spatial planning in its functional, environmental, and social dimensions. Formal specializations are available in Transportation Planning and Urban Development & Urban Design. M.U.P. students in the core program may also participate in the Barbados Field Study Semester, which focuses on global environmental issues. Further information concerning these concentrations is available at www.mcgill.ca/urbanplanning/programs. Students wishing to specialize in urban development and design, as in other subfields of planning, can do so within the core program. In all cases, electives, the summer internship, and the Supervised Research Project allow for individual concentration on a particular topic.

Graduates of the M.U.P. program work as planners, designers and policy analysts, as researchers, advocates and mediators, and they do so at various levels of government, in civil-society organizations, and with private consulting firms. Although their area of expertise varies, they devote their efforts in increasing numbers to sustainable development in its environmental, social, and economic dimensions.

section 6.11.9.5: Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis) (66 credits)

The M.U.P. program requires two years of study, including a three-month summer internship in a professional setting. Upon completion of the program, 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 Transportation Planning concentration enables students to specialize in this field as part of their course of study for the M.U.P. degree. A number of core courses and electives, the summer internship, and the Supervised Research Project must be devoted to the acquisition of skills (including in quantitative analysis) necessary to work as a transportation planner. Admission into the concentration is based on a competitive selection process at the end of the first year of study in the M.U.P. program.


The Urban Development and Urban Design concentration produces graduates who are skilled in analysis and design for development in existing (sub)urban landscapes and urbanizing contexts, whether in North America or elsewhere. A series of courses on urban design, real estate, the politics of development, and urban governance enhance the core curriculum of the professionally-accredited M.U.P. program. Additional courses address innovative approaches to urban development, contemporary urban form, community-based design, globalization and development, and the adaptive redesign of suburban contexts, in addition to enduring topics such as housing, public space, cultural landscapes, and environmental planning. Students seeking to specialize in Urban Development and Urban Design apply at the end of their first year of study; admission into the concentration is based on performance in the first year of study and demonstration of spatial literacy, numeric competency, skills in graphic communication, and understanding of complex development processes.

6.11.9.3 Urban Planning Admission Requirements and Application Procedures

6.11.9.3.1 Admission Requirements

The M.U.P. degree is open to students holding a bachelor's degree or equivalent in Anthropology, Architecture, Economics, Engineering, Environmental Studies, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Studies. Students from other academic backgrounds may also apply, but should explain in the Personal Statement why they would like to transition into urban planning.

6.11.9.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures and www.mcgill.ca/urbanplanning/how-apply for detailed application procedures.

6.11.9.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Personal Statement (one to two pages)
- Curriculum Vitae
- Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. By the application deadlines, appropriate exam results must be sent electronically directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. The minimum requirement
for the TOEFL is a score of 100 on the Internet-based test (iBT), with each component score not less than 23. The minimum score for the IELTS test is 7.0, with a score of at least 6.5 for each component.

Awards and Financial Assistance
The Admissions Committee decides the allocation of internal awards for incoming students after the application deadline, and they are allocated, in part, based on merit; no special application is needed to be considered for this funding. Canadian students can also enter the program with a major external fellowship from a government funding agency such as SSHRC and NSERC. Descriptions of the external awards can be found at www.mcgill.ca/gps/funding.

6.11.9.3 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Urban Planning and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>All Applicants</th>
<th>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</th>
<th>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</th>
<th>Current McGill Students (any citizenship)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term: N/A</td>
<td>Sept. 15</td>
<td>Jan. 15</td>
<td>Jan. 15</td>
<td>Jan. 15</td>
</tr>
<tr>
<td>Winter Term: N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term: N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

6.11.9.4 Urban Planning Faculty

Director
Richard Shearmur

Emeritus Professors
David Farley; B.Arch.(McG.), M.Arch., M.C.P.(Harv.)
Jane Matthews-Glenn; B.A., LL.B.(Qu.), D. en droit(Stras.)

Post-Retirement Professor
David Brown; B.A.(Bishop's), M.U.P.(McG.), Ph.D.(Sheff.)

Professors
Ahmed Elgeneidy; B.A.A., M.Arch.(Alexandria), Ph.D.(Port. St.)
Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.)

Associate Professors
Madhav G. Badami; B.Tech., M.S.(IT, Madras) M.E.Des.(Calg.), Ph.D.(Br. Col.) (joint appt. with McGill School of Environment)
Lisa Bornstein; B.Sc.(Calif., Berk.), M.R.P(Cornell), Ph.D.(Calif., Berk.)
Raphaël Fischler; B.Eng.(Eindhoven), M.Sc., M.C.P.(MIT), Ph.D.(Calif., Berk.)
Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.) (joint appt. with School of Architecture)

Assistant Professor
David Wachsmuth; B.A.(McG.), M.Sc.(Tor.), Ph.D.(NYU)

Adjunct Professors
Nilson Espino; B.Arch.(Catolica Santa Maria La Antigua), M.Sc.(Ariz.), Ph.D.(Rice)
Murtaza Haider; B.Sc.(NWFP UET-Pesh.), M.A.Sc., Ph.D.(Tor.)
Paul LeCavalier; B.Sc., M.U.P.(McG.), M.R.P(Wat.)
Adjunct Professors
Marc-André Lechasseur; LL.B.(Sher.), LL.M.(Montr.)
Mario Polèse; B.A.(CUNY), M.A., Ph.D.(Penn.)
Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

Associate Member
Cameron Charlebois; B.Sc.(Arch.), B.Arch., M.B.A.(McG.)

Instructors
Malaka Ackaoui, Julian Agyeman, Suzanne Doucet, Gorka Espiau, Martin Wexler

6.11.9.5 Master of Urban Planning (M.U.P) Urban Planning (Non-Thesis) (66 credits)
The M.U.P. requires two years of study and research including a three-month summer internship in a professional setting. Upon completion of the program, graduates are expected to have acquired basic planning skills, a broad understand of urban issues, and specialized knowledge in a field of their own choice.

Research Project (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB 630</td>
<td>3</td>
<td>Supervised Research Project 1</td>
</tr>
<tr>
<td>URB 631</td>
<td>6</td>
<td>Supervised Research Project 2</td>
</tr>
<tr>
<td>URB 632</td>
<td>6</td>
<td>Supervised Research Project 3</td>
</tr>
</tbody>
</table>

Required Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB 609</td>
<td>3</td>
<td>Planning Graphics</td>
</tr>
<tr>
<td>URB 612</td>
<td>3</td>
<td>History and Theory of Planning</td>
</tr>
<tr>
<td>URB 622</td>
<td>6</td>
<td>Planning Studio 1</td>
</tr>
<tr>
<td>URB 623</td>
<td>3</td>
<td>Planning Studio 2</td>
</tr>
<tr>
<td>URB 624</td>
<td>6</td>
<td>Planning Studio 3</td>
</tr>
<tr>
<td>URB 633</td>
<td>3</td>
<td>Research Methods for Planners</td>
</tr>
<tr>
<td>URB 635</td>
<td>3</td>
<td>Planning Law</td>
</tr>
</tbody>
</table>

Required Internship (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB 628</td>
<td>6</td>
<td>Practical Experience</td>
</tr>
</tbody>
</table>

Complementary Courses (18 credits)
Students are encouraged to complete at least one course in each of the four areas of design, environment, housing, and transportation.

Group A
9-18 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 515</td>
<td>3</td>
<td>Sustainable Design</td>
</tr>
<tr>
<td>ARCH 517</td>
<td>3</td>
<td>Sustainable Residential Development</td>
</tr>
<tr>
<td>ARCH 520</td>
<td>3</td>
<td>Montreal: Urban Morphology</td>
</tr>
<tr>
<td>ARCH 564</td>
<td>3</td>
<td>Design for Development</td>
</tr>
<tr>
<td>ARCH 566</td>
<td>3</td>
<td>Cultural Landscapes Seminar</td>
</tr>
<tr>
<td>CIVE 540</td>
<td>3</td>
<td>Urban Transportation Planning</td>
</tr>
<tr>
<td>CIVE 561</td>
<td>3</td>
<td>Urban Activity, Air Pollution, and Health</td>
</tr>
<tr>
<td>GEOG 504</td>
<td>3</td>
<td>Advanced Economic Geography</td>
</tr>
</tbody>
</table>
GEOG 525 (3) Asian Cities in the 21st Century
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 507* (3) Planning and Infrastructure
URBP 514 (4) Community Design Workshop
URBP 519* (6) Sustainable Development Plans
URBP 520* (3) Globalization: Planning and Change
URBP 530 (3) Urban Environmental Planning
URBP 536 (2) Current Issues in Transportation 1
URBP 537 (2) Current Issues in Transportation 2
URBP 541 (1) Selected Topics in Planning
URBP 542 (1) Selected Topics in Visual Analysis
URBP 551 (3) Urban Design and Planning
URBP 553 (3) Urban Governance
URBP 555 (3) Real Estate and Planning
URBP 556 (3) Urban Economy: A Spatial Perspective
URBP 604 (3) Urban Design Seminar
URBP 608 (3) Advanced GIS Applications
URBP 619 (3) Land Use and Transportation Planning
URBP 620 (3) Transportation Economics
URBP 625 (2) Principles and Practice 2
URBP 626 (2) Principles and Practice 3
URBP 629 (3) Cities in a Globalizing World
URBP 634* (3) Planning Water Resources in Barbados
URBP 651 (3) Redesigning Suburban Space
URBP 656 (3) Urban Innovation and Creativity

* Courses open only to students enrolled in the Barbados Field Study Semester during the fall term of their second year in the program. With this option, URBP 519 is substituted for URBP 624. Coursework must include URBP 507, URBP 520, and URBP 634. All other requirements for the M.U.P. degree apply.

Group B
0-9 credits from the following:

Students may take up to 9 credits of coursework offered at the 500 or 600 levels by any academic unit at McGill or at another Montreal university, with the approval of the School, if they help students to develop an in-depth knowledge of one or more subject areas in the field of planning, with the approval of the School. Choices usually include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the selected course(s) can be counted toward the M.U.P. degree.


The Transportation Planning Option enables students to specialize in this field as part of their course of study for the Master of Urban Planning degree (M.U.P.). Studio courses, an internship, and a final project involve real-life work that prepares students for the professional practice of urban transportation planning. Admission into the concentration is based on a competitive selection process at the end of the first year of study in the M.U.P. program.

Research Project (15 credits)

URBP 630 (3) Supervised Research Project 1
URBP 631 (6) Supervised Research Project 2
URBP 632 (6) Supervised Research Project 3

Required Internship (6 credits)
URBP 628 (6) Practical Experience

Required Courses (33 credits)
URBP 505 (3) Geographic Information Systems
URBP 609 (3) Planning Graphics
URBP 612 (3) History and Theory of Planning
URBP 619 (3) Land Use and Transportation Planning
URBP 622 (6) Planning Studio 1
URBP 623 (3) Planning Studio 2
URBP 624 (6) Planning Studio 3
URBP 633 (3) Research Methods for Planners
URBP 635 (3) Planning Law

Complementary Courses (12 credits)
Group A
6-12 credits from the following:
CIVE 540 (3) Urban Transportation Planning
CIVE 561 (3) Urban Activity, Air Pollution, and Health
CIVE 637 (4) Discrete Choice Modeling in Transportation
CIVE 661 (4) Modelling of Transportation Emissions
URBP 504 (3) Planning for Active Transportation
URBP 506 (3) Environmental Policy and Planning
URBP 536 (2) Current Issues in Transportation 1
URBP 537 (2) Current Issues in Transportation 2
URBP 608 (3) Advanced GIS Applications
URBP 620 (3) Transportation Economics

Group B
0-6 credits
Students may take up to six credits of coursework at the 500 or 600-level offered by any academic unit at McGill or another Montreal university, with the approval of the School, if they help students to develop an in-depth knowledge of one or more subject areas in the field of planning. Choices usually include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the selected course(s) can be counted toward the M.U.P. degree.

The concentration in Urban Development and Urban Design produces graduates who are skilled in analysis and design for development in existing (sub)urban landscapes and urbanizing contexts, whether in North America or elsewhere. A series of courses on urban design, real estate, the politics of development, and urban governance enhance the core curriculum of the professionally-accredited M.U.P. program. Additional courses address innovative approaches to urban development, contemporary urban form, community-based design, globalization and development, and the adaptive redesign of suburban contexts, in addition to enduring topics such as housing, public space, cultural landscapes, and environmental planning. Students seeking to specialize in Urban Development and Urban Design apply at the end of their first year of study; admission into the concentration is based on performance in the first year of study and demonstration of spatial literacy, numeric competency, skills in graphic communication, and understanding of complex development processes.
Research Project (15 credits)

URBP 630  (3)  Supervised Research Project 1
URBP 631  (6)  Supervised Research Project 2
URBP 632  (6)  Supervised Research Project 3

Required Internship (6 credits)

URBP 628  (6)  Practical Experience

Required Courses (33 credits)

URBP 551  (3)  Urban Design and Planning
URBP 609  (3)  Planning Graphics
URBP 612  (3)  History and Theory of Planning
URBP 622  (6)  Planning Studio 1
URBP 623  (3)  Planning Studio 2
URBP 624  (6)  Planning Studio 3
URBP 633  (3)  Research Methods for Planners
URBP 635  (3)  Planning Law

Complementary Courses

A minimum of 9 credits are selected from Group A; the remaining credits can be selected from Group A or Group B as indicated below.

Group A (9-12 credits)

At least 9 credits (three courses) from the following:

URBP 553  (3)  Urban Governance
URBP 555  (3)  Real Estate and Planning
URBP 557  (3)  The City in History
URBP 604  (3)  Urban Design Seminar

Group B (0-6 credits)

0-6 credits from the following or other 500 or 600 level courses (see note below):

ARCH 515  (3)  Sustainable Design
ARCH 517  (3)  Sustainable Residential Development
ARCH 521  (3)  Structure of Cities
ARCH 564  (3)  Design for Development
ARCH 566  (3)  Cultural Landscapes Seminar
GEOG 525  (3)  Asian Cities in the 21st Century
URBP 501  (2)  Principles and Practice 1
URBP 504  (3)  Planning for Active Transportation
URBP 506  (3)  Environmental Policy and Planning
URBP 514  (4)  Community Design Workshop
URBP 530  (3)  Urban Environmental Planning
URBP 541  (1)  Selected Topics in Planning
7 McGill School of Environment

7.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

7.2 Graduate and Postdoctoral Studies

7.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu, B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech, B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier, B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun, B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkänen, B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

7.2.2 Location

James Administration Building, Room 400
7.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

7.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

7.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

7.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

7.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

7.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.
7.8 Postdoctoral Research

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

7.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

7.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.
   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.
   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).
   v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges
   i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.
   ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.
   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering
the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
• to provide feedback on research submitted by the Postdocs;
• to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
• to provide mentorship for career development;
• to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:

• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014
7.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

_Council of FGSR April 23, 1999_

7.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see _University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status_).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in _University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status._

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at [www.mcgill.ca/gps/funding/getting-paid](http://www.mcgill.ca/gps/funding/getting-paid) under “Leave Policies and Form.”

7.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

**Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

**Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

**Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

*Note:* Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage
7.9  Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

7.10  Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

7.11  Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

7.11.1  Environment

7.11.1.1  Location

Downtown Campus
McGill School of Environment
3534 University Street
Montreal QC H3A 2A7
Canada
Telephone: 514-398-2827
Fax: 514-398-1643

Macdonald Campus
McGill School of Environment
Rowles House
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7559

Coordinator – C. Zhu
7.11.1.2 About Environment

Resolving environmental issues requires a dialogue between pure and applied sciences, the social sciences, and the humanities. The degradation of the biological and biophysical environment has roots in the structure of human societies while solutions to environmental problems have an impact on human livelihoods.

A number of academic departments and institutes at McGill promote graduate-level research and training on environmental topics and have faculty members whose main research interest falls in this domain. As such, environmental research is widespread throughout the McGill community. The Environment option provides a vehicle whereby discipline-based graduate programs can easily and effectively incorporate collaborations from at least one other discipline into their research.

Goals of the Option

- To provide thesis or non-thesis students in existing graduate programs with an understanding of how knowledge is transferred into action with regard to the environment;
- To develop an appreciation of the role of scientific, political, socioeconomic, and ethical judgments in influencing that process;
- To provide a forum whereby graduate students in environment throughout the University bring their disciplinary perspectives together and enrich each other’s learning through structured courses, formal seminars, and informal discussions and networking.

Students admitted into the Environment option will be supervised or co-supervised by an accredited McGill faculty member. Their Advisory Committee will include at least one individual from outside the home department. It is expected that the thesis, dissertation, or project, as well as the final seminar presentation, will contain an environmental component and will include a discussion of the applied implications of the research findings. Together with the courses common to the Environment option, specific course requirements for each program are given within the departmental listings cited below.

Program List

The Environment option is currently available with the following graduate programs:

section 3.11.1: Anthropology

section 3.11.1.7: Master of Arts (M.A.) Anthropology (Thesis): Environment (48 credits) (Arts) > Graduate > Browse Academic Units & Programs > Anthropology

section 14.11.1: Atmospheric and Oceanic Sciences

section 14.11.1.6: Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis): Environment (45 credits) (Science) > Graduate > Browse Academic Units & Programs > Atmospheric and Oceanic Sciences

section 14.11.2: Biology

section 14.11.2.6: Master of Science (M.Sc.) Biology (Thesis): Environment (48 credits) (Science) > Graduate > Browse Academic Units & Programs > Biology

section 14.11.2.10: Doctor of Philosophy (Ph.D.) Biology: Environment (Science) > Graduate > Browse Academic Units & Programs > Biology

section 2.11.3: Bioresource Engineering

section 2.11.3.6: Master of Science (M.Sc.) Bioresource Engineering (Thesis): Environment (46 credits) (Agricultural & Environmental Sciences) > Graduate > Browse Academic Units & Programs > Bioresource Engineering

section 2.11.3.10: Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environmental Engineering (45 credits) (Agricultural & Environmental Sciences) > Graduate > Browse Academic Units & Programs > Bioresource Engineering

section 2.11.3.13: Doctor of Philosophy (Ph.D.) Bioresource Engineering: Environment (Agricultural & Environmental Sciences) > Graduate > Browse Academic Units & Programs > Bioresource Engineering

section 14.11.5: Earth and Planetary Sciences

section 14.11.5.6: Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis): Environment (48 credits) (Science) > Graduate > Browse Academic Units & Programs > Earth and Planetary Sciences

section 14.11.5.8: Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences: Environment (Science) > Graduate > Browse Academic Units & Programs > Earth and Planetary Sciences
Entomology (under section 2.11.7: Natural Resource Sciences)

section 2.11.7: Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits) (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)

section 2.11.7.6: Doctor of Philosophy (Ph.D.) Entomology: Environment (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)

section 3.11.9: Geography

section 3.11.9.7: Master of Arts (M.A.) Geography (Thesis): Environment (45 credits) (Science > Graduate > Browse Academic Units & Programs > Geography)

section 14.11.6.6: Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits) (Science > Graduate > Browse Academic Units & Programs > Geography)

section 14.11.6.9: Doctor of Philosophy (Ph.D.) Geography: Environment (Arts > Graduate > Browse Academic Units & Programs > Geography)

section 8.11.1: Law

section 8.11.1.7: Master of Laws (LL.M.) Law (Thesis): Environment (45 credits) (Law > Graduate > Browse Academic Units & Programs > Law)

section 8.11.1.9: Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits) (Law > Graduate > Browse Academic Units & Programs > Law)

Management (under section 9.11: Desautels Faculty of Management)

section 9.14.5: Doctor of Philosophy (Ph.D.) Management: Environment (Management > Graduate > Joint Ph.D. in Management Admission Requirements and Application Procedures)

section 10.11.12: Medicine, Experimental

section 10.11.12.7: Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits) (Medicine > Graduate > Browse Academic Units & Programs > Medicine, Experimental)

section 10.11.12.9: Doctor of Philosophy (Ph.D.) Experimental Medicine: Environment (Medicine > Graduate > Browse Academic Units & Programs > Medicine, Experimental)

Microbiology (under section 2.11.7: Natural Resource Sciences)

section 2.11.7.10: Master of Science (M.Sc.) Microbiology (Thesis): Environment (46 credits) (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)

section 2.11.7.20: Doctor of Philosophy (Ph.D.) Microbiology: Environment (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)

section 2.11.8: Parasitology

section 2.11.8.8: Doctor of Philosophy (Ph.D.) Parasitology: Environment (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Parasitology)

section 3.11.18: Philosophy

section 3.11.18.7: Doctor of Philosophy (Ph.D.) Philosophy: Environment (Arts > Graduate > Browse Academic Units & Programs > Philosophy)

section 2.11.9: Plant Science

section 2.11.9.7: Master of Science (M.Sc.) Plant Science (Thesis): Environment (48 credits) (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Plant Science)

section 2.11.9.12: Doctor of Philosophy (Ph.D.) Plant Science: Environment (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Plant Science)

Renewable Resources (under section 2.11.7: Natural Resource Sciences)

section 2.11.7.12: Master of Science (M.Sc.) Renewable Resources (Thesis): Environment (46 credits) (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)

section 2.11.7.22: Doctor of Philosophy (Ph.D.) Renewable Resources: Environment (Agricultural & Environmental Sciences > Graduate > Browse Academic Units & Programs > Natural Resource Sciences)
7.11.3 Environment Admission Requirements and Application Procedures

7.11.3.1 Admission Requirements

Candidates must apply separately to the McGill School of Environment (MSE) for the graduate Environment option. Their acceptability will be based on their academic experience and performance, and availability of a potential MSE-accredited supervisor or co-supervisor for their proposed research. For further information, please consult the following website: www.mcgill.ca/mse/envroption.

7.11.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

7.11.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- option application form
- signed option supervisory form (a supervisor or co-supervisor must be MSE-affiliated. Please visit the following website for listing: www.mcgill.ca/mse/envroption#FACULTY).

7.11.3.3 Application Dates and Deadlines

The application deadlines to the graduate Environment option may vary depending on the department you are applying to. For more information, please contact the Graduate Program Coordinator in the department you are interested in.

7.11.4 Environment Faculty

**Director**

Sylvie de Blois; B.Sc.(McG.), M.Sc., Ph.D.(Montr.)

**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)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (joint appt. with Redpath Museum)

**Associate Professors**

Madhav Badami; B.Tech., M.S.(IIT), M.E.Des.(Calg.), Ph.D.(Br. Col.) (joint appt. with School of Urban Planning)

Christopher Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.) (joint appt. with Institute for Health and Social Policy)

Elena Bennett; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.) (joint appt. with Natural Resource Sciences)

Jeffrey Cardille; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), M.Sc., Ph.D.(Wisc.) (joint appt. with Natural Resource Sciences)

Sylvie de Blois; B.Sc.(Agr.), 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)

Iwao Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (joint appt. with Philosophy)

Nicolas Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Kent), M.Sc., Ph.D.(Univ. Autonoma de Barcelona) (joint appt. with Natural Resource Sciences)

Brian Leung; B.Sc.(Br. Col.), Ph.D.(Cat.) (joint appt. with Biology)

Gregory Mikkelson; B.A.(Trinity), M.S., Ph.D.(Chic.) (joint appt. with Philosophy)

Raja Sengupta; B.Sc.(Bom.), M.Sc.(IIT), Ph.D.(S. Illinois) (joint appt. with Geography)


Ismael Vaccaro; B.A.(Barcelona), D.E.A.(Paris), M.A., Ph.D.(Wash.) (joint appt. with Anthropology)

**Assistant Professor**

Kevin Manaugh; B.A.(Naropa), M.U.P., Ph.D.(McG.) (joint appt. with Geography)

Hamish van der Ven; B.A., M.A.(Br. Col.), Ph.D.(Ont.) (joint appt. with Political Science)
### Faculty Lecturers

Julia Freeman; B.A. (S. Fraser), M.A. (McG.), Ph.D. (Br. Col.)  
George McCourt; B.Sc., M.Sc. (Alta.), M.Sc. (McG.)  
Kathryn Roulet; B.Sc. (Trent), M.Sc. (Guelph)

### Associate Members

**Anthropology**: John Galaty  
**Architecture, School of**: Nik Luka  
**Atmospheric and Oceanic Sciences**: Parisa Ariya  
**Biology**: Lauren Chapman, Andrew Gonzalez, Irene Gregory-Eaves, Catherine Potvin  
**Bioresource Engineering**: Jan Adamowski, Grant Clark, Mark Lefsrud, Chandra Madramootoo  
**Chemical Engineering**: Nathalie Tufenkji, Viviane Yargeau  
**Chemistry**: Christopher Barrett  
**Civil Engineering and Applied Mechanics**: Susan Gaskin, Van-Thanh-Van Nguyen, Jim Nicell  
**Earth and Planetary Sciences**: Jeanne Paquette  
**Economics**: Chris Green, Tom Naylor  
**Electrical and Computer Engineering**: Geza Joos  
**Epidemiology, Biostatistics, and Occupational Health**: Jonathan Chevrier, Mark Goldberg  
**Geography**: Gail Chmura, Oliver Coomes, Graham MacDonald, Thom Meredith, Tim Moore, Wayne H. Pollard, Brian Robinson, Nancy Ross, Nigel Roulet  
**History and Classical Studies**: Daviken Studnicki-Gizbert  
**Human Nutrition, School of**: Niladri Basu  
**Languages, Literatures, and Cultures**: Stephanie Posthumus  
**Law, Faculty of**: Richard Gold, Richard Janda, Hoi Kong  
**Management, Desautels Faculty of**: Dror Etzion, Steve Maguire  
**Natural Resource Sciences**: Christopher Buddle, Benoit Cote, Jim W. Fyles, Gordon Hickey, Ian Strachan, Paul Thomassin, Joann Whalen  
**Parasitology, Institute of**: Marilyn Scott  
**Pathology**: Bruce Case  
**Plant Science**: Caroline Begg, Pierre Dutilleul, Don Smith  
**Political Science**: Philip Oxhorn  
**Redpath Museum**: David M. Green  
**Urban Planning, School of**: Nik Luka

### Adjunct Professor

Katia Opalka; B.A., LL.B./B.C.L. (McG.)

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## 8 Faculty of Law

### 8.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:  
Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate
student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

8.2 Graduate and Postdoctoral Studies

8.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Officer Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu, B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

8.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

8.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

8.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

8.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

8.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
• Doctoral Degrees
• Ad Personam Programs (Thesis Option Only)
• Coursework for Graduate Programs, Diplomas, and Certificates

8.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

• Application for Admission
• Admission Requirements
• Application Procedures
• Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

8.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

8.8 Postdoctoral Research

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

8.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

8.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellowships/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship, financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They may be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
• to provide feedback on research submitted by the Postdocs;
• to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
• to provide mentorship for career development;
• to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:

• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

8.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

8.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

8.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.
Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfils criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

8.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

8.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

8.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.
8.11.1 Law

8.11.1.1 Location

Faculty of Law
Graduate Programs in Law
New Chancellor Day Hall
3644 Peel Street, Room 406
Montreal QC H3A 1W9
Canada
Telephone: 514-398-6635
Fax: 514-398-8453
Email: grad.law@mcgill.ca
Website: www.mcgill.ca/law-gradprograms

Associate Dean (Graduate Studies) – Richard Gold

8.11.1.2 About Law

Graduate students in Law at McGill have one thing in common: a sharp curiosity to explore ideas and projects in an environment that is uniquely comparative and pluralist.

The extensive and impressive history of graduate teaching and supervision at McGill, combined with the innovations in legal pedagogy for which the Faculty of Law is celebrated, create an unrivaled quality and experience for graduate students. Grounded in Montreal, a city that embodies a lively mix of languages, cultures, and communities, the Faculty of Law invites students pursuing their D.C.L. and LL.M. degrees to discover and write within a community of legal scholars that is internationally renowned and engaging.

McGill's Faculty of Law is a meeting place for the major languages of North America, for the world’s legal traditions, and for students who wish to participate in the graduate life of a truly outstanding, prestigious, and intellectually vibrant Faculty of Law.

The Faculty of Law offers a range of programs at the graduate level. These include the degrees of Master of Laws (LL.M.) with thesis and non-thesis options, Doctor of Civil Law (D.C.L.), and Graduate Certificates.

Students may choose to pursue either the LL.M. in general Law, Air and Space Law, Bioethics, Comparative Law, or Environment; or the D.C.L. in general Law, Comparative Law, or Air and Space Law. Graduate Certificates may only be completed in Comparative Law or in Air and Space Law.

Master of Laws (LL.M.) Degrees

section 8.11.1.5: Master of Laws (LL.M.) Law (Thesis) (45 credits)

The LL.M. thesis program is geared toward students who wish to continue their legal education primarily through research, as the program concentrates on the production of a 30,000-word thesis, as well as some graduate-level coursework.

section 8.11.1.10: Master of Laws (LL.M.) Law (Thesis): Air and Space Law (45 credits)

The LL.M. thesis program in Air and Space Law is geared toward students who wish to focus on original scholarly research related to the Air and Space Law domain. This program involves a combination of coursework and research credits (a thesis of 30,000 words). The thesis must show familiarity with previous work in the field and demonstrate the student’s capacity for independent analysis, writing skills, and organization.

section 8.11.1.6: Master of Laws (LL.M.) Law (Thesis): Bioethics (45 credits)

The master’s specialization in Bioethics is an interdisciplinary program that emphasizes both the conceptual and practical aspects of Bioethics. Students pursuing the LL.M. in Bioethics are bound by the requirements of the Faculty of Law’s LL.M. program. This program is offered as a thesis option only.

section 8.11.1.12: Master of Laws (LL.M.) Law (Thesis): Comparative Law (45 credits)

In the field of Comparative Law, students are encouraged to think about the nature and value of comparative scholarship both through coursework (particularly the Legal Traditions course, which is required for all students in Comparative Law) and through their master’s thesis. As such, students are encouraged and given opportunities to explore how juridical analyses are enriched through openness to learning from diversity in research methods, theoretical frameworks, legal traditions and doctrines, languages, and disciplinary perspectives. The LL.M. thesis program in Comparative Law requires several graduate-level courses and the production of a 30,000-word thesis.
section 8.11.1.7: Master of Laws (LL.M.) Law (Thesis): Environment (45 credits)

The graduate option in Environment is a cross-disciplinary option offered in conjunction with the McGill School of Environment within the LL.M. (thesis or non-thesis), providing students with an appreciation for the role of science, politics, and ethics in informed decision-making in the environment sector. The thesis option requires the production of a 30,000-word thesis.

Note: Availability of this program is subject to relevant courses being offered in a given year.

section 8.11.1.8: Master of Laws (LL.M.) Law (Non-Thesis) (45 credits)

The LL.M. Non-Thesis program is geared toward students who wish to continue their legal education largely through graduate-level coursework. The program requires two terms of coursework as well as a 15,000-word research project.

section 8.11.1.11: Master of Laws (LL.M.) Law (Non-Thesis): Air and Space Law (45 credits)

The LL.M. non-thesis program in Air and Space Law is geared toward students who wish to gain a wide exposure to a range of taught courses within, and related to, the Air and Space Law domain. The non-thesis option requires a 15,000-word research project, with the remaining credits earned in courses.


In the field of Comparative Law, students are encouraged to think about the nature and value of comparative scholarship both through coursework (particularly the Legal Traditions course, which is required for all students in Comparative Law) and through their master’s research project. As such, students are encouraged and given opportunities to explore how juridical analyses are enriched through openness to learning from diversity in research methods, theoretical frameworks, legal traditions and doctrines, languages, and disciplinary perspectives. The LL.M. non-thesis program requires two terms of graduate-level coursework and another term to produce a 15,000-word research project.

section 8.11.1.9: Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits)

The graduate option in Environment is a cross-disciplinary option offered in conjunction with the McGill School of Environment within the LL.M. (thesis or non-thesis) providing students with an appreciation for the role of science in informed decision-making in the environment sector, and its influence on political, socio-economic, and ethical judgments. The non-thesis option requires two terms of graduate-level coursework on environment law, as well as a 15,000-word research project.

Note: Availability of this program is subject to relevant courses being offered in a given year.

Doctor of Civil Law (D.C.L.) Degrees

section 8.11.1.14: Doctor of Civil Law (D.C.L.) Law

The Doctor of Civil Law program is centred around the doctoral thesis, which develops a substantive and original contribution to legal research and knowledge under the supervision of a faculty member. Many doctoral candidates intend on pursuing an academic career, and develop their approach to pedagogy, research, and writing while at McGill.

section 8.11.1.15: Doctor of Civil Law (D.C.L.) Air and Space Law

The Doctor of Civil Law in Air and Space Law is a research degree ideal for scholars intent on deepening and broadening their critical understanding of the law, as well as their original engagement with it. The program offers a curriculum exploring legal issues that arise from international civil aviation and new technologies in space. It also provides students with a comprehensive understanding of the legal processes regulating worldwide aerospace activities.

section 8.11.1.16: Doctor of Civil Law (D.C.L.) Comparative Law

Doctoral students in Comparative Law are encouraged to think about the nature and value of comparative scholarship both through coursework (particularly the Legal Traditions course, which is recommended for DCL students in Comparative Law) and through their doctoral thesis. As such, students are encouraged and given opportunities to explore how juridical analyses are enriched through openness to learning with diverse research methods, theoretical frameworks, legal traditions and doctrines, languages, and disciplinary perspectives.

Graduate Certificates
section 8.11.1.17: Graduate Certificate (Gr. Cert.) Air and Space Law (15 credits)

The Graduate Certificate in Air and Space Law is a course-based program designed for students with a strong professional orientation. This certificate is particularly appropriate for jurists and other professionals who wish to pursue graduate-level legal studies in aviation, air and space law, government regulations, conventions, and treaties dealing with these areas.

section 8.11.1.18: Graduate Certificate (Gr. Cert.) Comparative Law (15 credits)

The Graduate Certificate in Comparative Law provides advanced training to candidates who do not wish to undertake the master's degree. The Graduate Certificate is particularly appropriate for judges, law professors, and legal practitioners from countries undergoing substantial legal reform (such as post-Communist or developing countries) who wish to pursue advanced studies in areas such as civil, commercial, or human rights law.

8.11.1.3 Law Admission Requirements and Application Procedures

8.11.1.3.1 Admission Requirements

Applicants must submit their application through uApply. Any questions regarding the status of an application must be sent via the uApply communication tool. For detailed information on the application process, please visit the Faculty website.

8.11.1.3.1.1 Language Requirement

Graduate-level courses are generally offered in English, and an adequate level of proficiency in English must be demonstrated for admission. In order to understand all course materials, the ability to speak and read French is an asset. At McGill's Faculty of Law, all students may choose to write essays, examinations, and theses in English or French. In areas such as the study of private law in the civilian tradition or comparative private law, a reading knowledge of French is essential.

For graduate applicants whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized Canadian or American (English or French) institution or from a recognized foreign institution where English is the language of instruction, documented proof of English proficiency is required prior to admission. For a list of acceptable test scores and minimum requirements, visit www.mcgill.ca/law-gradprograms/prospective-students/admissions/eligibility.

8.11.1.3.1.2 LL.M. Programs

Candidates for admission to the master's programs must hold a bachelor's degree (or equivalent) in Law (such as LL.B. or J.D.), with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 (or equivalent).* This standing does not guarantee admission; the Graduate Admissions Committee weighs the entire dossier, including the applicant's reference letters and the quality of the research proposal.

* Candidates holding law degrees from programs delivered by distance or by online teaching and learning are inadmissible to the McGill LL.M., D.C.L., or Graduate Certificate programs.

8.11.1.3.1.3 LL.M. Interdisciplinary Options

Note: The availability of these options is subject to relevant courses being offered in a given year.

1. Environment Option: This option is available to students who apply for admission to the LL.M. Thesis or Non-Thesis program at the Faculty of Law. For further information, see Environment > Graduate > Browse Academic Units & Programs > section 7.11.1: Environment or visit www.mcgill.ca/mse/envroption.

2. Bioethics Option: This option is available to students who apply for admission to the LL.M. Thesis program at the Faculty of Law. For further information, see Medicine > Graduate > Browse Academic Units & Programs > section 10.11.3: Bioethics or visit www.mcgill.ca/biomedicalethicsunit/teaching/masters.

8.11.1.3.1.4 D.C.L. Programs

Applicants demonstrating outstanding academic ability will be considered for admission to the doctoral program. In addition to the requirements for admission to the LL.M. programs, D.C.L. applicants must also hold a master's degree (or equivalent) in Law, with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 (or equivalent).* Admission to the doctoral program is always dependent on the availability of a suitable supervisor.

* Candidates holding law degrees from programs delivered by distance or by online teaching and learning are inadmissible to the McGill LL.M., D.C.L., or Graduate Certificate programs.

8.11.1.3.1.5 Graduate Certificate Programs

The requirements for admission to the graduate certificate programs are essentially the same as for the LL.M. programs, except that greater weight may be placed on professional experience. For further information, visit www.mcgill.ca/law-gradprograms/prospective-students/admissions/eligibility. Graduate certificate programs are available in the following two fields:

1. Graduate Certificate in Air and Space Law
2. Graduate Certificate in Comparative Law
8.11.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

8.11.1.3.2.1 Additional Requirements

The items below are additional requirements set by the Faculty of Law. For further information, visit www.mcgill.ca/law-gradprograme/prospective-students/admissions/deadlines-and-required-documents.

- Proof of English proficiency (for applicants whose mother tongue is not English)
- Research Proposal (D.C.L. and LL.M. applicants)
- Personal Statement (graduate certificate applicants only)
- Two Reference Letters from academic referees
- Curriculum Vitae
- Master's thesis (D.C.L. applicants only)

8.11.1.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Faculty of Law and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

The application deadline to all graduate programs in law (LL.M., D.C.L., Graduate Certificates) is December 15. The Faculty of Law will not consider applications received on or after December 16.

The Faculty of Law offers Fall term admission only; the Faculty will not consider applications for Winter or Summer entry. Applications submitted for the Winter and Summer terms will be cancelled without reimbursement of the application fee.

Note: The application fee is non-refundable.

8.11.1.4 Course Selection (Graduate and Postdoctoral Law Programs)

It should be noted that not all courses are offered in each year. Students wishing to pursue research topics outside of these particular fields are welcome to do so, subject to the availability of appropriate thesis supervisors.

The graduate-level Law courses are grouped into five inter-related concentrations.

8.11.1.4.1 Legal Traditions and Legal Theory

This concentration combines two areas of strength: the coexistence of diverse legal traditions, particularly (but not exclusively) the civil and common law, and the awareness of the importance of theoretical approaches to law as a means of understanding both the internal dynamic of legal phenomena and their relationship to other social phenomena.

Courses offered within this concentration may include:

- Aboriginal Peoples and the Law (CMPL 500)
- Advanced Criminal Law (PUB2 501)
- Advanced Jurisprudence (CMPL 505)
- Canadian Legal History (CMPL 547)
- Civil Law Perspectives (CMPL 601)
- Common Law Perspectives (CMPL 602)
Courses offered within this concentration may include:

Comparative Modern Legal History (CMPL 519)
Feminist Legal Theory (CMPL 504)
Human Rights & Cultural Diversity (CMPL 603)
Jurisprudence (CMPL 501)
Legal Education Seminar (LAWG 525)
Legal Theory (CMPL 506)
Legal Traditions (CMPL 600)
Linguistic and Literary Approaches to Law (CMPL 507)
Restitution (PRV4 500)
Roman Law (CMPL 510)
Sentencing in Canadian Law (PUB2 504)
Social Diversity and Law (CMPL 511)
Talmudic Law (CMPL 513)
Theoretical Approaches to Law (CMPL 641)

8.11.1.4.2 International Business Law

This field has practical significance in international business relations and also provides opportunities to apply experience derived from multiple legal systems to the development of multi-jurisdictional, “international” commercial rules.

Courses offered within this concentration may include:

Airline Business and Law (ASPL 614)
Comparative Air Law (ASPL 632)
Comparative Legal Institutions (CMPL 517)
Copyright and Trademark Theory (BUS2 500)
Corporate Finance (BUS2 505)
European Union Law 1 (CMPL 536)
European Union Law 2 (CMPL 537)
Government Control of Business (CMPL 574)
Government Regulation of Space Activities (ASPL 639)
Intellectual & Industrial Property (BUS2 502)
International Business Law (CMPL 604)
International Carriage of Goods by Sea (CMPL 515)
International Development Law (CMPL 516)
International Environmental Law and Politics (CMPL 546)
International Maritime Conventions (CMPL 553)
International Taxation (CMPL 539)
Law and Practice of International Trade (CMPL 543)
Law of Space Applications (ASPL 638)
Patent Theory and Policy (BUS2 501)
Private International Air Law (ASPL 636)
Public International Air Law (ASPL 633)
Resolution of International Disputes (CMPL 533)
Securities Regulation (BUS2 504)
8.11.1.4.3 Human Rights and Cultural Diversity

Building on the Faculty’s strength in public law, this concentration promotes the comparative study of human rights law. It provides students with opportunities to reflect critically on the emergence and institutionalization of human rights norms in both domestic and international settings and to explore complexities arising from cultural diversity.

Courses offered within this concentration may include:

- Aboriginal Peoples and the Law (CMPL 500)
- Advanced Criminal Law (PUB2 501)
- Children and the Law (PRV2 500)
- Civil Liberties (CMPL 573)
- Discrimination and the Law (CMPL 575)
- Feminist Legal Theory (CMPL 504)
- Human Rights & Cultural Diversity (CMPL 603)
- International Criminal Law (PUB2 502)
- International Humanitarian Law (CMPL 565)
- International Law of Human Rights (CMPL 571)
- Law and Psychiatry (PUB2 500)
- Social Diversity and Law (CMPL 511)

8.11.1.4.4 Regulation, Technology and Society

This concentration focuses on the comparative and interdisciplinary study of legal regulation in areas of rapid technological change. It encourages critical reflection on notions of the public interest and its protection in areas as diverse as the biomedical sciences, the environment, the growth of computer networks, and the commercial exploitation of space.

Courses offered within this concentration may include:

- Communications Law (CMPL 577)
- Comparative Medical Law (CMPL 551)
- Computers and the Law (CMPL 578)
- Environment and the Law (CMPL 580)
- Government Control of Business (CMPL 574)
- Intellectual & Industrial Property (BUS2 502)
- International Environmental Law and Politics (CMPL 546)
- Land Use Planning (PRV4 545)
- Law and Health Care (CMPL 642)
- Law and Psychiatry (PUB2 500)
- Medical Liability (CMPL 522)
- Policies, Politics and Legislative Process (CMPL 518)
- Regulation Technology/Society (CMPL 605)
- Trade Regulation (CMPL 521)

8.11.1.4.5 Air and Space Law

This field explores legal issues that arise from international civil aviation and new technologies in space. It provides a comprehensive understanding of the legal processes regulating worldwide aerospace activities.

Courses offered within this concentration may include:

- Government Regulation of Air Transport (ASPL 613)
- Airline Business and Law (ASPL 614)
- Comparative Air Law (ASPL 632)
Courses offered within this concentration may include:

- Public International Air Law (ASPL 633)
- Private International Air Law (ASPL 636)
- Space Law: General Principles (ASPL 637)
- Law of Space Applications (ASPL 638)
- Government Regulation of Space Activities (ASPL 639)

### 8.11.1.5 Master of Laws (LL.M.) Law (Thesis) (45 credits)

The 45-credit LL.M. program, thesis option, is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

LL.M. candidates may be associated with the Centre for Human Rights and Legal Pluralism, the Quebec Research Centre of Private and Comparative Law, the Centre for Intellectual Property Policy, or one of the specialized Research Chairs at the Faculty of Law. For more information, see our Website: http://www.mcgill.ca/law-gradprograms/programs/llm/.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

#### Thesis Courses (30 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>CMPL 612</td>
<td>3</td>
<td>Master's Thesis 1</td>
</tr>
<tr>
<td>CMPL 613</td>
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</tr>
<tr>
<td>CMPL 617</td>
<td>3</td>
<td>Master's Thesis 6</td>
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</table>

#### Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 610</td>
<td>3</td>
<td>Legal Research Methodology</td>
</tr>
<tr>
<td>CMPL 641</td>
<td>3</td>
<td>Theoretical Approaches to Law</td>
</tr>
<tr>
<td>LAWG 601</td>
<td>1.5</td>
<td>Communication 1</td>
</tr>
<tr>
<td>LAWG 602</td>
<td>1.5</td>
<td>Communication 2</td>
</tr>
</tbody>
</table>

#### Complementary Courses (6 credits)

The remaining 6 credits (or fewer if more credits are earned for the Master's Thesis) are chosen from among Faculty offerings at the 500 and 600 level.

### Additional Thesis Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of thesis courses by completing one or both of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 618</td>
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<td>Master's Thesis 7</td>
</tr>
<tr>
<td>CMPL 619</td>
<td>1</td>
<td>Master's Thesis 8</td>
</tr>
</tbody>
</table>

### 8.11.1.6 Master of Laws (LL.M.) Law (Thesis): Bioethics (45 credits)

The 45-credit LL.M. program, thesis option, in Bioethics is a research-intensive, interdisciplinary, graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing
complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate’s research interests complete the program’s credit requirements.

Students following the Bioethics option come from the Faculties of Law, Medicine, Religious Studies, or the Department of Philosophy. Entering students pursuing an LL.M., Bioethics are bound by the requirements of the Faculty of Law’s LL.M. program (thesis option). For further information regarding this program, please refer to the Bioethics section. See http://www.mcgill.ca/biomedicalethicsunit/.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

**Thesis Courses (24 credits)**

The Master's Thesis programs consist of a coursework component and a thesis of approximately 100 pages. As part of the thesis requirement, a candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 690</td>
<td>3</td>
<td>M.Sc. Thesis Literature Survey</td>
</tr>
<tr>
<td>BIOE 691</td>
<td>3</td>
<td>M.Sc. Thesis Research Proposal</td>
</tr>
<tr>
<td>BIOE 693</td>
<td>12</td>
<td>M.Sc. Thesis</td>
</tr>
</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 680</td>
<td>3</td>
<td>Bioethical Theory</td>
</tr>
<tr>
<td>BIOE 681</td>
<td>3</td>
<td>Bioethics Practicum</td>
</tr>
<tr>
<td>CMPL 641</td>
<td>3</td>
<td>Theoretical Approaches to Law</td>
</tr>
<tr>
<td>LAWG 601</td>
<td>1.5</td>
<td>Communication 1</td>
</tr>
<tr>
<td>LAWG 602</td>
<td>1.5</td>
<td>Communication 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

3 credits from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 682</td>
<td>3</td>
<td>Medical Basis of Bioethics</td>
</tr>
<tr>
<td>CMPL 642</td>
<td>3</td>
<td>Law and Health Care</td>
</tr>
<tr>
<td>PHIL 643</td>
<td>3</td>
<td>Seminar: Medical Ethics</td>
</tr>
<tr>
<td>RELG 571</td>
<td>3</td>
<td>Ethics, Medicine and Religion</td>
</tr>
</tbody>
</table>

6 credits at the 500 level or above of Faculty of Law courses or Bioethics courses.

**8.11.1.7 Master of Laws (LL.M.) Law (Thesis): Environment (45 credits)**

The Faculty of Law together with the School of Environment and other units at McGill offers a 45-credit LL.M. program, thesis option, in Environment. This is a research-intensive, interdisciplinary, graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

**Thesis Courses (27 credits)**

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 612</td>
<td>3</td>
<td>Master's Thesis 1</td>
</tr>
<tr>
<td>CMPL 613</td>
<td>3</td>
<td>Master's Thesis 2</td>
</tr>
</tbody>
</table>
Master of Laws (LL.M.) Law (Non-Thesis) (45 credits)

The 45-credit LL.M. non-thesis option complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the Summer of the first year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)
The supervised research project is a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and is typically completed in the Summer.

CMPL 655 (15) Research Project 1

Required Courses (9 credits)

CMPL 610 (3) Legal Research Methodology
CMPL 641 (3) Theoretical Approaches to Law
LAWG 601 (1.5) Communication 1
LAWG 602 (1.5) Communication 2

Complementary Courses (21 credits)
The remaining 21 credits (or fewer if more credits are earned for the research project) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Research Project Courses
With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

CMPL 656 (2) Research Project 2
CMPL 657 (1) Research Project 3

8.11.1.9 Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits)

The Faculty of Law together with the School of Environment and other units at McGill offers a 45-credit, LL.M. program, non-thesis option, in Environment. The program complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the Summer of the first year, meaning that students usually complete their program within one calendar year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

CMPL 655 (15) Research Project 1

Required Courses (12 credits)

CMPL 610 (3) Legal Research Methodology
ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3
LAWG 601 (1.5) Communication 1
LAWG 602 (1.5) Communication 2

Complementary Courses (18 credits)

15 credits (or fewer if more credits are earned for the research project) chosen from:

CMPL 500 (3) Aboriginal Peoples and the Law
CMPL 546 (3) International Environmental Law and Politics
CMPL 580 (3) Environment and the Law

and/or other Faculty of Law offerings.

3 credits chosen from:

ENVR 519 (3) Global Environmental Politics
ENVR 544 (3) Environmental Measurement and Modelling
ENVR 620 (3) Environment and Health of Species
ENVR 622 (3) Sustainable Landscapes
ENVR 630 (3) Civilization and Environment
ENVR 680 (3) Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Additional Research Project Courses
With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

- CMPL 656 (2) Research Project 2
- CMPL 657 (1) Research Project 3

### 8.11.1.10 Master of Laws (LL.M.) Law (Thesis): Air and Space Law (45 credits)

The 45-credit LL.M. program, thesis option, in Air and Space Law is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

#### Thesis Courses (24 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses, and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

- ASPL 690 (3) Master's Thesis 1
- ASPL 691 (3) Master's Thesis 2
- ASPL 692 (6) Master's Thesis 3
- ASPL 693 (12) Master's Thesis 4

#### Required Courses (12 credits)

- ASPL 633 (3) Public International Air Law
- ASPL 636 (3) Private International Air Law
- ASPL 637 (3) Space Law: General Principles
- LAWG 601 (1.5) Communication 1
- LAWG 602 (1.5) Communication 2

#### Complementary Courses (9 credits)

3 credits from the following:

- CMPL 610D1 (1.5) Legal Research Methodology
- CMPL 610D2 (1.5) Legal Research Methodology
- CMPL 641 (3) Theoretical Approaches to Law

6 credits at the 500 level or higher, chosen from among Faculty offerings (including ASPL offerings).

### 8.11.1.11 Master of Laws (LL.M.) Law (Non-Thesis): Air and Space Law (45 credits)

The 45-credit LL.M. program, non-thesis option, in Air and Space Law complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and includes a supervised substantial paper in an area of interest.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the summer of the first year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

#### Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

- ASPL 655 (15) Research Project 1
Required Courses (12 credits)

- ASPL 633 (3) Public International Air Law
- ASPL 636 (3) Private International Air Law
- ASPL 637 (3) Space Law: General Principles
- LAWG 601 (1.5) Communication 1
- LAWG 602 (1.5) Communication 2

Complementary Courses (18 credits)

3 credits from the following:

- CMPL 610D1 (1.5) Legal Research Methodology
- CMPL 610D2 (1.5) Legal Research Methodology
- CMPL 641 (3) Theoretical Approaches to Law

15 credits (or fewer if more credits are earned for the research project) at the 500 level or higher chosen from among Faculty offerings (including ASPL offerings).

Additional Research Project Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

- ASPL 656 (2) Research Project 2
- ASPL 657 (1) Research Project 3

8.11.1.12 Master of Laws (LL.M.) Law (Thesis): Comparative Law (45 credits)

The 45-credit LL.M. program, thesis option, in Comparative Law is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

LL.M. candidates may be associated with the Centre for Human Rights and Legal Pluralism, the Quebec Research Centre of Private and Comparative Law, the Centre for Intellectual Property Policy, or one of the specialized Research Chairs at the Faculty of Law. For more information, see our website: http://www.mcgill.ca/law-gradprograms/programs/llm/.

Candidates must remain in residence for three terms. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (30 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

- CMPL 612 (3) Master's Thesis 1
- CMPL 613 (3) Master's Thesis 2
- CMPL 614 (3) Master's Thesis 3
- CMPL 615 (6) Master's Thesis 4
- CMPL 616 (12) Master's Thesis 5
- CMPL 617 (3) Master's Thesis 6

Required Courses (12 credits)

- CMPL 600 (3) Legal Traditions
Complementary Courses (3 credits)
The remaining 3 credits (or fewer if more credits are earned for the Master's Thesis) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Thesis Courses
With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of thesis courses by completing one or both of:

CMPL 618 (2) Master's Thesis 7
CMPL 619 (1) Master's Thesis 8

8.11.1.13 Master of Laws (LL.M.) Law (Non-Thesis): Comparative Law (45 credits)
The 45-credit LL.M. program, non-thesis option, in Comparative Law complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms. The third term is devoted to the Research Project, usually taken in the summer of the first year, meaning that students usually complete their program within one calendar year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)
The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

CMPL 655 (15) Research Project 1

Required Courses (12 credits)

CMPL 600 (3) Legal Traditions
CMPL 610 (3) Legal Research Methodology
CMPL 641 (3) Theoretical Approaches to Law
LAWG 601 (1.5) Communication 1
LAWG 602 (1.5) Communication 2

Complementary Courses (18 credits)
The remaining 18 credits (or fewer if more credits are earned for the research project) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Research Project Courses
With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

CMPL 656 (2) Research Project 2
CMPL 657 (1) Research Project 3

8.11.1.14 Doctor of Civil Law (D.C.L.) Law
The Doctor of Civil Law (D.C.L.) program allows the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member.
The degree will be awarded, at the earliest, after the completion of 3 years of residence in the Faculty. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

**Comprehensive - Required**

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAWG 701</td>
<td>(0)</td>
<td>Comprehensive Exam - Law</td>
</tr>
</tbody>
</table>

**Required Courses (5 Credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CMPL 641</td>
<td>(3)</td>
<td>Theoretical Approaches to Law</td>
</tr>
<tr>
<td>LAWG 702</td>
<td>(2)</td>
<td>Legal Research Methodology for DCL</td>
</tr>
<tr>
<td>LAWG 703</td>
<td>(0)</td>
<td>Literature Review, Analysis and Proposal</td>
</tr>
<tr>
<td>LAWG 704</td>
<td>(0)</td>
<td>DCL Research Seminar 1</td>
</tr>
<tr>
<td>LAWG 705</td>
<td>(0)</td>
<td>DCL Research Seminar 2</td>
</tr>
</tbody>
</table>

**Complementary Course (0-3 Credits)**

Some students are encouraged to take the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>LAWG 601</td>
<td>(1.5)</td>
<td>Communication 1</td>
</tr>
<tr>
<td>LAWG 602</td>
<td>(1.5)</td>
<td>Communication 2</td>
</tr>
</tbody>
</table>

**8.11.1.15 Doctor of Civil Law (D.C.L.) Air and Space Law**

The Institute of Air & Space Law offers a D.C.L. program in Air and Space Law, which allows the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member.

The degree will be awarded, at the earliest, after the completion of three years of residence. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

**Comprehensive - Required**

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>ASPL 701</td>
<td>(0)</td>
<td>Comprehensive - Air/Space Law</td>
</tr>
</tbody>
</table>

**Required Courses (5 Credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
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<td>(3)</td>
<td>Theoretical Approaches to Law</td>
</tr>
<tr>
<td>LAWG 702</td>
<td>(2)</td>
<td>Legal Research Methodology for DCL</td>
</tr>
<tr>
<td>LAWG 703</td>
<td>(0)</td>
<td>Literature Review, Analysis and Proposal</td>
</tr>
<tr>
<td>LAWG 704</td>
<td>(0)</td>
<td>DCL Research Seminar 1</td>
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<tr>
<td>LAWG 705</td>
<td>(0)</td>
<td>DCL Research Seminar 2</td>
</tr>
</tbody>
</table>

**Complementary Course (0-3 Credits)**

Some students are encouraged to take the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(1.5)</td>
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</tr>
<tr>
<td>LAWG 602</td>
<td>(1.5)</td>
<td>Communication 2</td>
</tr>
</tbody>
</table>
8.11.1.16 Doctor of Civil Law (D.C.L.) Comparative Law

The Institute of Comparative Law offers the D.C.L. program in Comparative Law, which allows the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member.

The degree will be awarded, at the earliest, after the completion of three years of residence in the Faculty. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of the completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

Comprehensive - Required
Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

CMPL 701 (0) Comprehensive Examination-Comparative Law

Required Courses (5 Credits)

CMPL 641 (3) Theoretical Approaches to Law
LAWG 702 (2) Legal Research Methodology for DCL
LAWG 703 (0) Literature Review, Analysis and Proposal
LAWG 704 (0) DCL Research Seminar 1
LAWG 705 (0) DCL Research Seminar 2

Complementary Course (0-3 Credits)
Some students are encouraged to take the following:

LAWG 601 (1.5) Communication 1
LAWG 602 (1.5) Communication 2

8.11.1.17 Graduate Certificate (Gr. Cert.) Air and Space Law (15 credits)

The Graduate Certificate in Air and Space Law offered through the Institute of Air and Space Law is a coursework program, appropriate for students with a strong professional orientation.

The certificate is awarded after one term of residence in the Faculty and upon completion of 15 academic credits of graduate law courses. Students must take 9 credits of required Air and Space Law courses and the additional 6 credits may consist of any 500-level or higher law course or other courses offered through the Institute of Air and Space Law. Exceptionally, and with the permission of the Associate Dean, Graduate Studies, the 15 credits may be taken over two terms.

For more information, see our website: http://www.mcgill.ca/law-gradprograms/programs/certificate-programs/.

Required Courses (9 credits)

ASPL 633 (3) Public International Air Law
ASPL 636 (3) Private International Air Law
ASPL 637 (3) Space Law: General Principles

Complementary Courses (6 credits)
6 additional credits of 500-level or higher law courses.

8.11.1.18 Graduate Certificate (Gr. Cert.) Comparative Law (15 credits)

The Graduate Certificate in Comparative Law is offered through the Institute of Comparative Law and provides advanced legal training over one term of full-time studies or two terms of part-time studies to candidates who wish to pursue graduate legal education for career-related purposes.

The certificate is awarded after one term of residence in the Faculty and upon completion of 15 credits. In every case, the program is structured to meet individual needs and must be approved by the Associate Dean (Graduate Studies).

For more information, see our website: http://www.mcgill.ca/law-gradprograms/programs/certificate-programs/.
Complementary Courses
Courses at the 500 level or higher are chosen on an individual basis.

9   Desautels Faculty of Management

9.1  Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

9.2  Graduate and Postdoctoral Studies

9.2.1  Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu, B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech, B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

9.2.2  Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

9.2.3  Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.
9.3 **Important Dates**

For all dates relating to the academic year, consult [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

9.4 **Graduate Studies at a Glance**

Please refer to *University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance* for a list of all graduate departments and degrees currently being offered.

9.5 **Program Requirements**

Refer to *University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements* for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

9.6 **Graduate Admissions and Application Procedures**

Please refer to *University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures* for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

9.7 **Fellowships, Awards, and Assistantships**

Please refer to *University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships* for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

9.8 **Postdoctoral Research**

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

9.8.1 **Postdocs**

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).
9.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.
   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.
   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).
   v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges
   i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.
   ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.
   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.
   iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.
   v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.
   vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.
   vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.
   viii. Postdocs have access to the services provided by the Ombudsperson.
   ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.
Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities
   
   i. Postdocs are subject to the responsibilities outlined at [www.mcgill.ca/students/srr](http://www.mcgill.ca/students/srr) and must abide by the policies listed at [www.mcgill.ca/secretariat/policies-and-regulations](http://www.mcgill.ca/secretariat/policies-and-regulations).
   
   ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.
   
   iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.
   
   iv. Some examples of responsibilities of the department are:
   
   - to verify the Postdoc’s eligibility period for registration;
   - to provide Postdocs with departmental policy and procedures that pertain to them;
   - to oversee the registration and appointment of Postdocs;
   - to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
   - to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
   - to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
   - to include Postdocs in departmental career and placement opportunities;
   - to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.
   
   v. Some examples of responsibilities of the supervisor are:
   
   - to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
   - to provide research guidance;
   - to meet regularly with their Postdocs;
   - to provide feedback on research submitted by the Postdocs;
   - to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
   - to provide mentorship for career development;
   - to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.
   
   vi. Some examples of responsibilities of Postdocs are:
   
   - to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at [www.mcgill.ca/students/srr](http://www.mcgill.ca/students/srr) and the Graduate and Postdoctoral Studies [University Regulations and Resources](http://www.mcgill.ca/secretariat/policies-and-regulations);
   - to submit a complete file for registration to Enrolment Services;
   - to sign and adhere to their Letter of Agreement for Postdoctoral Education;
   - to communicate regularly with their supervisor;
   - to inform their supervisor of their absences.
   
   vii. Some examples of the responsibilities of the University are:
   
   - to register Postdocs;
   - to provide an appeal mechanism in cases of conflict;
   - to provide documented policies and procedures to Postdocs;
   - to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

9.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs are entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

9.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see [University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status](http://www.mcgill.ca/secretariat/policies-and-regulations)).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in [University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status](http://www.mcgill.ca/secretariat/policies-and-regulations).

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs.
on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at [www.mcgill.ca/gps/funding/getting-paid](http://www.mcgill.ca/gps/funding/getting-paid) under "Leave Policies and Form."

### 9.8.5 Postdoctoral Research Trainees

**Eligibility**

If your situation does not conform to the Government of Quebec's definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

- **Category 1:** An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

- **Category 2:** An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec's definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

- **Category 3:** An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

- **Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

### 9.9 Graduate Studies Guidelines and Policies

Refer to [University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies](http://www.mcgill.ca/gps/regulations) for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

### 9.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to [University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees](http://www.mcgill.ca/gps/regulations) for information on the following:
9.11 Desautels Faculty of Management

9.11.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West
Montreal QC H3A 1G5
Canada
Telephone: 514-398-4066
Website: www.mcgill.ca/desautels

9.11.2 About Desautels Faculty of Management

McGill University offers a variety of programs that provide graduate-level education in management. All programs have been tailored to meet the special needs and demands of different groups of people. Before embarking on a graduate management education, students should be aware of the different and unique features of each program, and select the one that best suits their aspirations and abilities.

Graduate Programs in Management

Master of Business Administration (M.B.A.)

section 9.12.7: Master of Business Administration (M.B.A.) Management (Non-Thesis): Business Analytics (57 credits)
section 9.12.8: Master of Business Administration (M.B.A.) Management (Non-Thesis): Finance (57 credits)
section 9.12.9: Master of Business Administration (M.B.A.) Management (Non-Thesis): General Management (57 credits)

Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.)/Bachelor of Laws (LL.B.)

section 9.12.13.8: Master of Business Administration and Bachelor of Civil Law/Bachelor of Laws (Joint M.B.A. & B.C.L./LL.B.) Management (Non-Thesis): Technology and Innovation Management & Law (144 credits)
### M.D., C.M./M.B.A.

**section 9.12.14.4:** Master of Business Administration and Doctor of Medicine & Master of Surgery (Joint M.B.A. & M.D., C.M.) Management (Non-Thesis) & Medicine (51 credits)

### Master of Business Administration (M.B.A.)/Japan

**section 9.12.15.5:** Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Finance (57 credits)

**section 9.12.15.6:** Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): General Management (57 credits)

**section 9.12.15.7:** Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Global Strategy and Leadership (57 credits)

**section 9.12.15.8:** Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Marketing (57 credits)

**section 9.12.15.9:** Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Technology and Innovation Management (57 credits)

### Executive Master of Business Administration (E.M.B.A.)

**section 9.12.16.4:** Executive Master of Business Administration (E.M.B.A.) Joint Executive M.B.A. (Non-Thesis) (45 credits)

### Master of Management (M.M.)

**section 9.13.3:** Master of Management (M.M.) Analytics (Non-Thesis) (45 credits)

**section 9.13.4:** Master of Management (M.M.) Finance (Non-Thesis) (45 credits)

**section 9.13.5:** Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

**section 9.13.6:** Master of Management (M.M.) IMPM (Non-Thesis) (45 credits)

**section 9.13.7:** Master of Management (M.M.) IMPMHL (Non-Thesis) (45 credits)

### Ph.D.

**section 9.14.4:** Doctor of Philosophy (Ph.D.) Management

### Graduate Certificates

**section 9.15.4:** Graduate Certificate (Gr. Cert.) Post MBA (15 credits)

**section 9.15.5:** Graduate Certificate (Gr. Cert.) Post MBA Japan (15 credits)

**section 9.16.5:** Graduate Certificate (Gr. Cert.) Professional Accounting (24 credits)

### 9.12  M.B.A. Program

**About the Master of Business Administration (M.B.A.)**

Students studying on a full-time basis typically complete this 57-credit program in two years and must complete it within three years; part-time students typically complete this program in three years and must complete it within five years.

The first semester of the program features an integrated set of core courses with an emphasis on experiential learning. The remaining three semesters allow the student to specialize in a particular concentration and participate in an international exchange or complete an internship or a practicum, supervised by faculty.

While the standard components of an M.B.A. curriculum (finance, organizational behaviour, strategy, marketing, operations) remain central to this M.B.A. program, they are combined in ways that expose students to the cross-functional realities of managing in, across, and among organizations.

**Master of Business Administration (M.B.A.); Management (Non-Thesis) (57 credits)**

**section 9.12.7:** Master of Business Administration (M.B.A.) Management (Non-Thesis): Business Analytics (57 credits)

**section 9.12.8:** Master of Business Administration (M.B.A.) Management (Non-Thesis): Finance (57 credits)

**section 9.12.9:** Master of Business Administration (M.B.A.) Management (Non-Thesis): General Management (57 credits)

**section 9.12.10:** Master of Business Administration (M.B.A.) Management (Non-Thesis): Global Strategy and Leadership (57 credits)

**section 9.12.11:** Master of Business Administration (M.B.A.) Management (Non-Thesis): Marketing (57 credits)

**section 9.12.12:** Master of Business Administration (M.B.A.) Management (Non-Thesis): Technology and Innovation Management (57 credits)
9.12.1 Admission Requirements

Applicants with strong indications of managerial potential are desired. Given below are the minimum entrance criteria. Owing to the large number of applicants to the McGill M.B.A., merely meeting the minimum requirements will not guarantee acceptance.

1. An undergraduate degree from an accredited college or university.
2. A Graduate Management Admission Test (GMAT) is required for all applicants. The GMAT is administered by Pearson Vue. The GMAT program code for the McGill M.B.A. program is 58 H-MN-22. Only a GMAT written within the last five years will be considered valid. GMAT test results must be sent to McGill directly from Pearson Vue; photocopies will not be accepted.
3. Applicants who earned a bachelor's degree outside Canada, the United States, Australia, New Zealand, or the United Kingdom, are required to take the Test of English as a Foreign Language. The TOEFL may be waived for graduates of four-year university programs whose language of instruction is English if the university is located in a non-English speaking country. Applicants who are not Canadian citizens and whose mother tongue is not English may be asked to demonstrate an English language competency beyond the submission of the TOEFL score. A minimum score of 100 for the Internet-based test (iBT; 600 for the paper-based test (PBT)) with each component score not less than 20 is required.

Applicants may write the IELTS (International English Language Testing Systems) instead. A minimum overall band of 7.0 is required, with each component score not less than 7.0.
4. A minimum of two years of full-time work experience, following completion of an undergraduate degree.
5. Two professional letters of reference.
6. Interview.

M.B.A. Part-time Studies – Admission

The McGill M.B.A. program may also be completed on a part-time basis. This is meant to accommodate persons with full-time employment. Admission requirements are the same as in section 9.12.1: Admission Requirements above.

Note: Students studying on a part-time basis may transfer to full-time upon completion of the core curriculum. Students wishing to do this must meet with the M.B.A. Student Adviser to review their schedule; see “Combined Full-Time and Part-Time Studies” below.

MBA Admissions Office
Desautels Faculty of Management
McGill University
1001 Sherbrooke Street West, Room 302
Montreal QC H3A 1G5
Canada
Email: mba.mgmt@mcgill.ca
Website: www.mcgill.ca/desautels/programs/mba-programs

9.12.2 M.B.A. Application Procedures

The McGill M.B.A. full-time and part-time programs begin in August of each year. McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

9.12.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- A completed Personal Background Sheet
- A completed Work History Form, as well as a Curriculum Vitae
- The GMAT score (written within the past five years) and the TOEFL score (where applicable) written within the past two years, forwarded directly from Pearson Vue for GMAT and the Educational Testing Service (see GMAT and TOEFL information in section 9.12.1: Admission Requirements above)
- A minimum of two years of full-time work experience, following completion of an undergraduate degree
- Interview

Please note that entrance to the McGill M.B.A. is highly competitive. It is in the applicant's interest to apply as early as possible. Applicants can view their application status via Minerva.

Note: Admission to graduate programs at McGill is competitive and the final decision rests with the Graduate Admissions Committee. Admission decisions are not subject to appeal.
Application Fee Information
The application fee must be paid by credit card at the time of application (online). Please note that a file will not be opened until an online application is received. Fee amounts and details are available on the Student Accounts website.

9.12.3 Application Dates and Deadlines

Applications are reviewed on a rolling basis so that the earlier a file is complete, the sooner the applicant may expect to receive an answer. The undergraduate record, GMAT and TOEFL scores (where applicable), work experience, essays found in the Personal Background Sheet, letters of reference, and interviews are the criteria used in making admission decisions. Interviews are scheduled by invitation only.

9.12.4 Procedure for Accepting an Offer of Admission to the M.B.A. Program

Registration
All accepted candidates will receive a package outlining registration procedures as well as deadline dates for fee payment.

Candidates who fail to register during the specified registration period may do so later, but will be charged a late registration fee by the University.

Please refer to University Regulations & Resources > Graduate > Regulations > section 1.1.3: Registration for more information.

Base Camp
Base Camp, for all new M.B.A. students, takes place for two weeks beginning in early August and covers fundamental quantitative methods. Base Camp is mandatory for all incoming M.B.A. students.

Orientation
Orientation for all new M.B.A. students is held during the week following Base Camp. This activity is mandatory for all incoming M.B.A. students.

Immigration Documents
All students who are not citizens or Permanent Residents of Canada are required to obtain the Quebec Acceptance Certificate (C.A.Q.) and Study Permit prior to entering the country. Do not leave home without proper documentation. You cannot change your status from Visitor to Student once you are in Canada.

Quebec Acceptance Certificate (C.A.Q.): The process to come to Canada begins with an application for a Quebec Acceptance Certificate (C.A.Q.). Details on how and where to apply for the C.A.Q. are provided with the McGill Admissions package.

Study Permit: Issued by Canada Immigration through a Canadian Embassy or Consulate.

Citizens of the United States, Greenland, and/or St. Pierre-Miquelon are permitted to obtain the Student Authorization at a Port of Entry, if in possession of the C.A.Q.

For further information, or if there is an emergency, contact:

International Student Services
3600 McTavish Street, Suite 4400
Montreal QC H3A 0G3
Telephone: 514-398-4349 (9:00 a.m. to 5:00 p.m.)
Email: international.students@mcgill.ca
Website: www.mcgill.ca/internationalstudents

9.12.5 Policies and Regulations of the M.B.A.

The following is a brief overview of the rules and regulations of the M.B.A. program. All attending students will be given an academic handbook from the M.B.A. office. Students are responsible for reading and abiding by these rules and regulations.

The McGill M.B.A. (full-time) is designed as a two-year program. The academic year begins in August and ends in April. Students admitted to the Accelerated Study Option may complete the program in a shorter period of time.

Withdrawal from the M.B.A. Program
Students wishing to withdraw from the McGill M.B.A. program must complete a “Withdrawal Form” available from the M.B.A. office. Students will not be considered as officially withdrawn until this form is completed. Students who drop out of the program but do not complete this form will be billed for the full tuition. Refer to University Regulations & Resources > Graduate > Regulations > Registration > section 1.1.3.10: Withdrawal from a Degree Program and University Regulations & Resources > Graduate > Regulations > section 1.1.5: University Withdrawal for further information.

Grading and Promotion Standards
The pass grade for each course is B- (65%).

Failures
Students are permitted one failure in the M.B.A. program. Any subsequent failure, including an unsuccessful supplemental examination, will result in the student being asked to withdraw from the M.B.A. program.

Outside Elective Courses
An outside elective is any course that is not part of the M.B.A. program. This includes courses in other faculties within McGill University or outside McGill University.

Students wishing to take an elective offered in another department at McGill must first obtain approval from the Program Director. Once approval is obtained, students must obtain permission from the department offering the course before registering for the elective with their faculty.

There are limitations to the number of courses an M.B.A. student can take outside the Desautels Faculty of Management during the M.B.A. program:

1. Students completing a 57-credit program may take 15 credits maximum outside the Desautels Faculty of Management. This does not include courses offered by other faculties at McGill.
2. Students may not take courses outside the Faculty if they are offered within the Faculty unless there are exceptional circumstances.
3. Students may not take language courses for credit toward the M.B.A.

M.B.A. Part-Time Studies
Students will follow a lockstep program, which will allow for completion of the core courses during the first year of study. Students must then take a number of cross-disciplinary courses and an experiential component to complete the degree.

A limit of five years is permitted to complete the degree requirements.

Combined Full-Time and Part-Time Studies
There are two options by which students may combine full-time and part-time studies.

Option 1
Upon completion of the entire first year of core courses on a part-time basis, students may request a status change to full-time to complete the remaining requirements as full-time students.

Option 2
Upon completion of the core requirements on a full-time basis, students may request a status change to part-time to complete the degree requirements.

Students wishing to change their status to full-time must make a written request at least four weeks prior to the beginning of the relevant term. These requests should be sent to the M.B.A. Student Adviser.

9.12.6 M.B.A. International Exchange Program
Through the McGill M.B.A. Exchange Program there are exciting opportunities to study abroad.

Participation in the program gives McGill students the opportunity to spend part of their M.B.A. studying at a business school abroad. McGill is part of the Partnership in International Management (PIM), a consortium of the leading business schools in North America, South America, Africa, Europe, and Asia.

Exchanges with both PIM and non-PIM schools are available.


9.12.7 Master of Business Administration (M.B.A.) Management (Non-Thesis): Business Analytics (57 credits)
The Business Analytics concentration equips students with the ability to apply data analytic techniques and tools to make better managerial decisions and drive superior business performance. Students will gain the ability to transform data into a powerful strategic asset. Students completing this concentration will have training in various methods and tools for analytics, and gain a comprehensive understanding of the strategic use of analytics for businesses.

Required Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>INSY 642</td>
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<td>Techniques and Tools for Analytics</td>
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<tr>
<td>MGCR 629</td>
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<td>Global Leadership</td>
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<tr>
<td>MGCR 650</td>
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<td>Business Tools</td>
</tr>
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<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
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<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
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<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
<tr>
<td>MGSC 640</td>
<td>3</td>
<td>Fundamentals of Decision Analytics</td>
</tr>
</tbody>
</table>

Complementary Courses (30 credits)
At least 6 credits selected from the following courses toward the concentration:

- INSY 652 (3) Predictive Analytics
- INSY 653 (3) Analytics for Digital Business Models
- MGSC 650 (3) Operations and Risk Analytics
- MGSC 656 (3) Analytics Consulting

At most 3 credits selected from the following courses toward the concentration:

- BUSA 690 (3) Advanced Topics in Management 1
- FINE 646 (3) Investments and Portfolio Management
- MRKT 658 (3) Marketing Intelligence
- MRKT 690 (3) Advanced Topics in Marketing 1

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

- BUSA 650 (6) Internship
- BUSA 651 (6) Practicum

*Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUSA 650 and BUSA 651. Two additional electives are required to complete the 57-credit requirement.

9.12.8 Master of Business Administration (M.B.A.) Management (Non-Thesis): Finance (57 credits)

The Finance concentration focuses on how firms raise capital and on the optimal allocation of capital for investments. This concentration prepares students for careers in corporate treasury functions, asset management, and investment banking.

**Required Courses (27 credits)**

- FINE 622 (3) Modern Corporate Finance
- FINE 646 (3) Investments and Portfolio 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 (30 credits)**

At least 6 credits selected from the following courses toward the concentration:

- FINE 541 (3) Applied Investments
- FINE 620 (3) Corporate Mergers
- FINE 630 (3) Fixed Income Markets
- FINE 635 (3) Financial Risk Management
- FINE 639 (3) Derivatives and Risk Management
- FINE 645 (3) Money and Capital Markets
FIN 648 (3) Applied Corporate Finance
FIN 660 (3) Global Investment Management
FIN 665 (3) Investment Strategies and Behavioural Finance
FIN 690 (3) Advanced Topics in Finance 1
FIN 693 (3) Global Capital Markets
FIN 694 (3) International Corporate Finance

At most, 3 credits selected from the following courses toward the concentration:

ACCT 618 (3) Financial Reporting: Structure & Analysis
BUS 692 (3) Advanced Topics in Management 3
INSY 690 (3) Advanced Topics in Management Information Systems 1

15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*  
BUS 650 (6) Internship  
BUS 651 (6) Practicum

* Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUS 650 and BUSA 651. Two additional electives are required to complete the 57-credit requirement.

9.12.9 Master of Business Administration (M.B.A.) Management (Non-Thesis): General Management (57 credits)

Required Core Courses (21 credits)
All M.B.A. students must complete the following core courses:

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

Concentration Courses (36 credits)
Five courses (15 credits) chosen in consultation with a supervisor, from the required or complementary courses in any of the Finance, Global Strategy and Leadership, Marketing, or Technology and Innovation Management concentrations.

The remaining 21 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*  
BUS 650 (6) Internship  
BUS 651 (6) Practicum

* Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUS 650 and BUSA 651. Two additional electives are required to complete the 57-credit requirement.
9.12.10 Master of Business Administration (M.B.A.) Management (Non-Thesis): Global Strategy and Leadership (57 credits)

Drawing on a variety of cross-disciplinary courses—including strategy, organizational behaviour, entrepreneurship, and international business—this concentration provides students with an integrated perspective on leading and shaping strategy to address today’s global business issues. Students develop the skills valued by employers in consulting, strategic planning, business development, project management, and related fields. Among the issues covered are how to take a firm international; how to lead and manage talent; how to manage a multicultural workforce; how to launch a new venture; how to negotiate effectively; and how to promote sustainable development.

Required Courses (21 credits)

All M.B.A. students must complete the following core courses:

- 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 (36 credits)

3 credits selected from the following:

- MGPO 630 (3) Managing Strategy and Innovation
- MGPO 683 (3) International Business Policy

3 credits selected from the following:

- ORGB 680 (3) Talent Management in a Global World
- ORGB 685 (3) Cross Cultural Management

At least 6 credits selected from the following courses toward the concentration:

- BUSA 614 (3) Governance of Corporation: Contemporary Issues
- BUSA 640 (3) Launching New Ventures
- BUSA 660 (3) CEO Insights
- BUSA 690 (3) Advanced Topics in Management 1
- INDR 633 (3) Creating Wealth and Prosperity
- MGPO 615 (3) Consulting for Change
- MGPO 630 (3) Managing Strategy and Innovation
- MGPO 637 (3) Cases in Competitive Strategy
- MGPO 638 (3) Managing Organizational Politics
- MGPO 640 (3) Strategies for Sustainable Development
- MGPO 645 (3) Strategy in Context
- MGPO 651 (3) Strategic Management: Developing Countries
- MGPO 669 (3) Managing Globalization
- MGPO 683 (3) International Business Policy
- ORGB 633 (3) Managerial Negotiations
- ORGB 640 (3) The Art of Leadership
- ORGB 680 (3) Talent Management in a Global World
ORGB 685 (3) Cross Cultural Management

At most 3 credits selected from the following courses toward the concentration:

  ACCT 618 (3) Financial Reporting: Structure & Analysis
  MGSC 602 (3) Strategic Management of Operations
  MRKT 652 (3) Competitive Marketing Strategy

15 credits chosen from 500-level courses and higher offered by the Faculty.

6 credits from the following:*

  BUSA 650 (6) Internship
  BUSA 651 (6) Practicum

* Note: Students electing to participate in an International Exchange are exempt from BUSA 650 and BUSA 651. Instead, 6 additional credits of complementary courses, at the 500 level or higher, are required to complete the 57-credit requirement.


The Marketing concentration focuses on the development of skills in understanding customers and markets, creating value through products and services, evaluating the effectiveness of marketing programs, and managing customer relationships.

**Required Courses (24 credits)**

  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
  MRKT 658 (3) Marketing Intelligence

**Complementary Courses (33 credits)**

3 credits from the following:

  MRKT 652 (3) Competitive Marketing Strategy
  MRKT 657 (3) Customer Insights

At least 6 credits selected from the following courses toward the concentration:

  MRKT 645 (3) Winning at Brands
  MRKT 652 (3) Competitive Marketing Strategy
  MRKT 654 (3) Marketing Communications
  MRKT 655 (3) Marketing Planning
  MRKT 659 (3) Advanced Business Marketing
  MRKT 690 (3) Advanced Topics in Marketing 1
  MRKT 698 (3) International Marketing Management
At most 3 credits selected from the following courses toward the concentration:

- INSY 645 (3) Managing Electronic Commerce
- INSY 690 (3) Advanced Topics in Management Information Systems I
- ORGB 633 (3) Managerial Negotiations

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*  
- BUSA 650 (6) Internship
- BUSA 651 (6) Practicum

* Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUSA 650 and BUSA 651. Two additional electives are required to complete the 57-credit requirement.

9.12.12 Master of Business Administration (M.B.A.) Management (Non-Thesis): Technology and Innovation Management (57 credits)

As technology reshapes the globe and innovations transform markets and organizations, the 21st century manager will be deeply immersed in technology and innovation management. As information technology is now present in more products and processes, managers need to understand the processes surrounding its strategic use and development. As manufacturing and service operations now stretch the globe, issues of logistics and supply chain integration become more important. As innovative products increasingly create and transform markets, managers must master the technology development process. This concentration provides tools, frameworks, and integration of all aspects of organizational operations, supply chain, IT processes and innovation management. Students following this concentration will be uniquely qualified to take jobs in new product development, IT strategy, operations and supply chain management, and technology consulting. A unique aspect of the concentration is the capstone project course where students work on solving a real-life technology innovation problem.

Required Courses (27 credits)

- INSY 606 (3) Technology 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
- MGSC 616 (3) Technology in Action

Complementary Courses (30 credits)

At least 6 credits selected from the following courses toward the concentration:

- INSY 607 (3) Technology Consulting
- INSY 608 (3) Winning with IT
- INSY 609 (3) Technology Project Management
- INSY 633 (3) Knowledge Management and Technology for Innovation
- INSY 645 (3) Managing Electronic Commerce
- MGSC 602 (3) Strategic Management of Operations
- MGSC 603 (3) Logistics Management
- MGSC 605 (3) Total Quality Management
MGSC 615 (3) Procurement and Distribution
MGSC 631 (3) Analysis: Production Operations

At most 3 credits selected from the following courses toward the concentration:
ACCT 618 (3) Financial Reporting: Structure & Analysis
BUS 691 (3) Advanced Topics in Management 2
MGPO 650 (3) Managing Innovation
ORGB 625 (3) Managing Organizational Change

15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*
BUS 650 (6) Internship
BUS 651 (6) Practicum

* Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUSA 650 and BUSA 651. Two additional electives are required to complete the 57-credit requirement.

9.12.13 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) Admission Requirements and Application Procedures

About the Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.)
The 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.

Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) (144 credits)

section 9.12.13.5 Master of Business Administration and Bachelor of Civil Law/Bachelor of Laws (Joint M.B.A. & B.C.L./LL.B.) Management (Non-Thesis): General Management & Law (144 credits)
section 9.12.13.8 Master of Business Administration and Bachelor of Civil Law/Bachelor of Laws (Joint M.B.A. & B.C.L./LL.B.) Management (Non-Thesis): Technology and Innovation Management & Law (144 credits)

9.12.13.1 Admission Requirements
For admission requirements, please refer to the Faculty of Law Admissions site at www.mcgill.ca/law-admissions.

Students wishing information on the Law program should contact:
Faculty of Law, Admissions Office
3544 Peel Street
Montreal QC H3A 1W9
Canada
Telephone: 514-398-6666
9.12.13.2 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

9.12.13.3 Application Dates and Deadlines
For application dates and deadlines, please consult the following website: www.mcgill.ca/desautels/programs/mba-programs/mbalaw.

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 (24 credits)
- BUSA 614 (3) Governance of Corporation: Contemporary Issues
- 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

Required Concentration Courses (6 credits)
- FINE 622 (3) Modern Corporate Finance
- FINE 646 (3) Investments and Portfolio Management

Complementary Courses (21 credits)
- ACCT 618 (3) Financial Reporting: Structure & Analysis
- FINE 541 (3) Applied Investments
- FINE 620 (3) Corporate Mergers
- FINE 630 (3) Fixed Income Markets
- FINE 635 (3) Financial Risk Management
- FINE 639 (3) Derivatives and Risk Management
- FINE 645 (3) Money and Capital Markets
- FINE 648 (3) Applied Corporate Finance
- FINE 660 (3) Global Investment Management
- FINE 665 (3) Investment Strategies and Behavioural Finance
- FINE 690 (3) Advanced Topics in Finance 1
- FINE 693 (3) Global Capital Markets
- FINE 694 (3) International Corporate Finance

Elective Courses
12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.
Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

**Required - Law (59 credits)**

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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
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<td>Business Associations</td>
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<tr>
<td>LAWG 100D1</td>
<td>3</td>
<td>Contractual Obligations</td>
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<td>PRAC 147D1</td>
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<td>Introductory Legal Research</td>
</tr>
<tr>
<td>PRAC 147D2</td>
<td>1.5</td>
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</tr>
<tr>
<td>PRAC 155D1</td>
<td>1.5</td>
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</tr>
<tr>
<td>PROC 124D1</td>
<td>2</td>
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<tr>
<td>PROC 200</td>
<td>3</td>
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</tr>
<tr>
<td>PRV1 144D1</td>
<td>2.5</td>
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<td>PRV3 200</td>
<td>3</td>
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</tr>
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<td>PRV4 144D2</td>
<td>2</td>
<td>Common Law Property</td>
</tr>
<tr>
<td>PUB2 101D1</td>
<td>3</td>
<td>Constitutional Law</td>
</tr>
<tr>
<td>PUB2 101D2</td>
<td>3</td>
<td>Constitutional Law</td>
</tr>
<tr>
<td>PUB2 111</td>
<td>3</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>PUB3 116D1</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>PUB3 116D2</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>WRIT 400D1</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
<tr>
<td>WRIT 400D2</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
</tbody>
</table>

**Complementary - Law**

Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
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<td>BUS2 561</td>
<td>3</td>
<td>Insurance</td>
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<tr>
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<tr>
<td>PRV2 270</td>
<td>3</td>
<td>Law of Persons</td>
</tr>
<tr>
<td>PRV4 548</td>
<td>3</td>
<td>Administration Property of Another and Trusts</td>
</tr>
</tbody>
</table>

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV3 534</td>
<td>3</td>
<td>Remedies</td>
</tr>
<tr>
<td>PRV4 451</td>
<td>3</td>
<td>Real Estate Transactions</td>
</tr>
<tr>
<td>PRV4 549</td>
<td>3</td>
<td>Equity and Trusts</td>
</tr>
</tbody>
</table>
Complementary - Law, Civil and 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)
LAWG 504 (3) Death and Property
LEEL 570 (3) Employment Law
PRV5 483 (3) Consumer Law

Complementary - 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 - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

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
### Elective - Law, Other Courses

Students select the remaining 19-25 credits from among Faculty of Law offerings.

#### 9.12.13.5 Master of Business Administration and Bachelor of Civil Law/Bachelor of Laws (Joint M.B.A. & B.C.L./LL.B.) Management (Non-Thesis): General Management & Law (144 credits)

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 (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 614</td>
<td>3</td>
<td>Governance of Corporation: Contemporary Issues</td>
</tr>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>2</td>
<td>Business Tools</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
</tbody>
</table>

#### Concentration Courses (15 credits)

Five courses (15 credits) chosen in consultation with a supervisor, from the required or complementary courses in any of the Finance, Global Strategy and Leadership, Marketing, or Technology and Innovation Management concentrations.

#### Elective Courses

12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.

- Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

#### Required - Law (59 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 365</td>
<td>4</td>
<td>Business Associations</td>
</tr>
<tr>
<td>LAWG 100D1</td>
<td>3</td>
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<td>Contractual Obligations</td>
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<td>LAWG 101D1</td>
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<td>PRAC 147D1</td>
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<td>Advanced Civil Law Obligations</td>
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<tr>
<td>PRV1 144D1</td>
<td>2.5</td>
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<td>PRV3 200</td>
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<tr>
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<td>Constitutional Law</td>
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<td>WRIT 400D2</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
</tbody>
</table>

**Complementary - Law**

Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

**Complementary - 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.

<table>
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<tr>
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</thead>
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<tr>
<td>BUS2 561</td>
<td>3</td>
<td>Insurance</td>
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<td>3</td>
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<tr>
<td>PRV4 548</td>
<td>3</td>
<td>Administration Property of Another and Trusts</td>
</tr>
</tbody>
</table>

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>PRV3 534</td>
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<tr>
<td>PRV4 451</td>
<td>3</td>
<td>Real Estate Transactions</td>
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<td>PRV4 549</td>
<td>3</td>
<td>Equity and Trusts</td>
</tr>
<tr>
<td>PRV5 582</td>
<td>2</td>
<td>Advanced Torts</td>
</tr>
</tbody>
</table>

**Complementary - Law, Civil and 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)
LAWG 504 (3) Death and Property
LEEL 570 (3) Employment Law
PRVS 483 (3) Consumer Law

**Complementary - 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 - Law, Principles of Canadian Administrative Law**

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

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
Elective - Law, Other Courses

Students select the remaining 19-25 credits from among Faculty of Law offerings.


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 - MBA (24 credits)

- BUSA 614 (3) Governance of Corporation: Contemporary Issues
- 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 - MBA (27 credits)

3 credits selected from the following:

- MGPO 630 (3) Managing Strategy and Innovation
- MGPO 683 (3) International Business Policy

3 credits selected from the following:

- ORGB 680 (3) Talent Management in a Global World
- ORGB 685 (3) Cross Cultural Management

9 credits selected from the following courses toward the concentration:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUSA 640</td>
<td>3</td>
<td>Launching New Ventures</td>
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<td>BUSA 660</td>
<td>3</td>
<td>CEO Insights</td>
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<tr>
<td>BUSA 690</td>
<td>3</td>
<td>Advanced Topics in Management 1</td>
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<tr>
<td>INDR 633</td>
<td>3</td>
<td>Creating Wealth and Prosperity</td>
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<td>MGPO 615</td>
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<td>Consulting for Change</td>
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<tr>
<td>MGPO 630</td>
<td>3</td>
<td>Managing Strategy and Innovation</td>
</tr>
<tr>
<td>MGPO 637</td>
<td>3</td>
<td>Cases in Competitive Strategy</td>
</tr>
<tr>
<td>MGPO 638</td>
<td>3</td>
<td>Managing Organizational Politics</td>
</tr>
<tr>
<td>MGPO 640</td>
<td>3</td>
<td>Strategies for Sustainable Development</td>
</tr>
<tr>
<td>MGPO 645</td>
<td>3</td>
<td>Strategy in Context</td>
</tr>
<tr>
<td>MGPO 651</td>
<td>3</td>
<td>Strategic Management: Developing Countries</td>
</tr>
<tr>
<td>MGPO 669</td>
<td>3</td>
<td>Managing Globalization</td>
</tr>
<tr>
<td>MGPO 683</td>
<td>3</td>
<td>International Business Policy</td>
</tr>
<tr>
<td>ORGB 633</td>
<td>3</td>
<td>Managerial Negotiations</td>
</tr>
<tr>
<td>ORGB 640</td>
<td>3</td>
<td>The Art of Leadership</td>
</tr>
<tr>
<td>ORGB 680</td>
<td>3</td>
<td>Talent Management in a Global World</td>
</tr>
<tr>
<td>ORGB 685</td>
<td>3</td>
<td>Cross Cultural Management</td>
</tr>
</tbody>
</table>

The remaining 12 credits of courses are chosen from the 500-level and higher offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

**Required - Law (59 credits)**

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<td>PRAC 147D1</td>
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<td>PRAC 147D2</td>
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<td>PRAC 155D1</td>
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<td>PROC 200</td>
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<td>Advanced Civil Law Obligations</td>
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<tr>
<td>PRV1 144D1</td>
<td>2.5</td>
<td>Civil Law Property</td>
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<td>PRV1 144D2</td>
<td>2.5</td>
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</tr>
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<td>PRV3 200</td>
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<td>PRV4 144D1</td>
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<td>Common Law Property</td>
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<tr>
<td>PRV4 144D2</td>
<td>2</td>
<td>Common Law Property</td>
</tr>
<tr>
<td>PUB2 101D1</td>
<td>3</td>
<td>Constitutional Law</td>
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<tr>
<td>PUB2 101D2</td>
<td>3</td>
<td>Constitutional Law</td>
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</tbody>
</table>
Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

**Complementary - 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
- **PROC 549** (3) Lease, Enterprise, Suretyship
- **PRV2 270** (3) Law of Persons
- **PRV4 548** (3) Administration Property of Another and Trusts

**Complementary - 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 549** (3) Equity and Trusts
- **PRV5 582** (2) Advanced Torts

**Complementary - Law, Civil and 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)
- **LAWG 504** (3) Death and Property
- **LEEL 570** (3) Employment Law
- **PRV5 483** (3) Consumer Law

**Complementary - 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 - Law, Principles of Canadian Administrative Law**

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

BUS1 532  (3)  Bankruptcy and Insolvency
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.

**Elective - Law, Other Courses**
Students select the remaining 19-25 credits from among Faculty of Law offerings.


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 (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 614</td>
<td>3</td>
<td>Governance of Corporation: Contemporary Issues</td>
</tr>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>2</td>
<td>Business Tools</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
</tbody>
</table>

Required Concentration Courses (6 credits)

Students choosing the Marketing concentration must complete these required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 657</td>
<td>3</td>
<td>Customer Insights</td>
</tr>
<tr>
<td>MRKT 658</td>
<td>3</td>
<td>Marketing Intelligence</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

Students choosing the Marketing concentration must choose three of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSY 645</td>
<td>3</td>
<td>Managing Electronic Commerce</td>
</tr>
<tr>
<td>MRKT 645</td>
<td>3</td>
<td>Winning at Brands</td>
</tr>
<tr>
<td>MRKT 652</td>
<td>3</td>
<td>Competitive Marketing Strategy</td>
</tr>
<tr>
<td>MRKT 654</td>
<td>3</td>
<td>Marketing Communications</td>
</tr>
<tr>
<td>MRKT 655</td>
<td>3</td>
<td>Marketing Planning</td>
</tr>
<tr>
<td>MRKT 659</td>
<td>3</td>
<td>Advanced Business Marketing</td>
</tr>
<tr>
<td>MRKT 690</td>
<td>3</td>
<td>Advanced Topics in Marketing 1</td>
</tr>
<tr>
<td>MRKT 698</td>
<td>3</td>
<td>International Marketing Management</td>
</tr>
</tbody>
</table>

12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

Required - Law (59 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 365</td>
<td>4</td>
<td>Business Associations</td>
</tr>
<tr>
<td>LAWG 100D1</td>
<td>3</td>
<td>Contractual Obligations</td>
</tr>
<tr>
<td>LAWG 100D2</td>
<td>3</td>
<td>Contractual Obligations</td>
</tr>
<tr>
<td>LAWG 101D1</td>
<td>3</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>LAWG 101D2</td>
<td>3</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>PRAC 147D1</td>
<td>1.5</td>
<td>Introductory Legal Research</td>
</tr>
<tr>
<td>PRAC 147D2</td>
<td>1.5</td>
<td>Introductory Legal Research</td>
</tr>
<tr>
<td>PRAC 155D1</td>
<td>1.5</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>PRAC 155D2</td>
<td>1.5</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>PROC 124D1</td>
<td>2</td>
<td>Judicial Institutions and Civil Procedure</td>
</tr>
<tr>
<td>PROC 124D2</td>
<td>2</td>
<td>Judicial Institutions and Civil Procedure</td>
</tr>
<tr>
<td>PROC 200</td>
<td>3</td>
<td>Advanced Civil Law Obligations</td>
</tr>
<tr>
<td>PRV1 144D1</td>
<td>2.5</td>
<td>Civil Law Property</td>
</tr>
<tr>
<td>PRV1 144D2</td>
<td>2.5</td>
<td>Civil Law Property</td>
</tr>
<tr>
<td>PRV3 200</td>
<td>3</td>
<td>Advanced Common Law Obligations</td>
</tr>
<tr>
<td>PRV4 144D1</td>
<td>2</td>
<td>Common Law Property</td>
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<tr>
<td>PRV4 144D2</td>
<td>2</td>
<td>Common Law Property</td>
</tr>
<tr>
<td>PUB2 101D1</td>
<td>3</td>
<td>Constitutional Law</td>
</tr>
<tr>
<td>PUB2 101D2</td>
<td>3</td>
<td>Constitutional Law</td>
</tr>
<tr>
<td>PUB2 111</td>
<td>3</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>PUB3 116D1</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>PUB3 116D2</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>WRIT 400D1</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
<tr>
<td>WRIT 400D2</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
</tbody>
</table>

**Complementary - Law**

Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 561</td>
<td>3</td>
<td>Insurance</td>
</tr>
<tr>
<td>PROC 549</td>
<td>3</td>
<td>Lease, Enterprise, Suretyship</td>
</tr>
<tr>
<td>PRV2 270</td>
<td>3</td>
<td>Law of Persons</td>
</tr>
<tr>
<td>PRV4 548</td>
<td>3</td>
<td>Administration Property of Another and Trusts</td>
</tr>
</tbody>
</table>

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV3 534</td>
<td>3</td>
<td>Remedies</td>
</tr>
<tr>
<td>PRV4 451</td>
<td>3</td>
<td>Real Estate Transactions</td>
</tr>
<tr>
<td>PRV4 549</td>
<td>3</td>
<td>Equity and Trusts</td>
</tr>
<tr>
<td>PRV5 582</td>
<td>2</td>
<td>Advanced Torts</td>
</tr>
</tbody>
</table>

**Complementary - Law, Civil and 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 522</td>
<td>3</td>
<td>Medical Liability</td>
</tr>
<tr>
<td>CMPL 573</td>
<td>3</td>
<td>Civil Liberties</td>
</tr>
<tr>
<td>LAWG 200</td>
<td>3</td>
<td>Commercial Law</td>
</tr>
<tr>
<td>LAWG 273</td>
<td>3</td>
<td>Family Law</td>
</tr>
<tr>
<td>LAWG 300</td>
<td>3</td>
<td>Family Property Law</td>
</tr>
<tr>
<td>LAWG 316</td>
<td>3</td>
<td>Private International Law</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>LAWG 400</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>LAWG 415</td>
<td>3</td>
<td></td>
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<tr>
<td>LEEL 369</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PRV5 483</td>
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<td></td>
</tr>
</tbody>
</table>

**Complementary - 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 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**

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

- 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
**Elective - Law, Other Courses**

Students select the remaining 19-25 credits from among Faculty of Law offerings.


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 (24 credits)**

- BUSA 614 (3) Governance of Corporation: Contemporary Issues
- 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

**Required Concentration Courses (6 credits)**

Students choosing the Technology and Innovation Management concentration must complete these required courses:

- INSY 606 (3) Technology Management
- MGSC 616 (3) Technology in Action

**Complementary Courses (9 credits)**

Students choosing the Technology and Innovation Management concentration must complete three of these complementary courses:

- INSY 607 (3) Technology Consulting
- INSY 608 (3) Winning with IT
- INSY 609 (3) Technology Project Management
- INSY 633 (3) Knowledge Management and Technology for Innovation
- INSY 645 (3) Managing Electronic Commerce
- MGPO 650 (3) Managing Innovation
- MGSC 602 (3) Strategic Management of Operations
- MGSC 603 (3) Logistics Management
- MGSC 605 (3) Total Quality Management
- MGSC 615 (3) Procurement and Distribution
- MGSC 631 (3) Analysis: Production Operations
- ORGB 625 (3) Managing Organizational Change
Elective Courses

12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

Required - Law (59 credits)

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<tr>
<td>LAWG 100D2</td>
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<tr>
<td>LAWG 101D2</td>
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<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>PRAC 147D1</td>
<td>1.5</td>
<td>Introductory Legal Research</td>
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<tr>
<td>PRAC 147D2</td>
<td>1.5</td>
<td>Introductory Legal Research</td>
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<tr>
<td>PRAC 155D1</td>
<td>1.5</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>PRAC 155D2</td>
<td>1.5</td>
<td>Legal Ethics and Advocacy</td>
</tr>
<tr>
<td>PROC 124D1</td>
<td>2</td>
<td>Judicial Institutions and Civil Procedure</td>
</tr>
<tr>
<td>PROC 124D2</td>
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<td>PROC 200</td>
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<td>Advanced Civil Law Obligations</td>
</tr>
<tr>
<td>PRV1 144D1</td>
<td>2.5</td>
<td>Civil Law Property</td>
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<tr>
<td>PRV1 144D2</td>
<td>2.5</td>
<td>Civil Law Property</td>
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<tr>
<td>PRV3 200</td>
<td>3</td>
<td>Advanced Common Law Obligations</td>
</tr>
<tr>
<td>PRV4 144D1</td>
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<tr>
<td>PRV4 144D2</td>
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<td>PUB2 101D1</td>
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<td>Constitutional Law</td>
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<td>PUB2 101D2</td>
<td>3</td>
<td>Constitutional Law</td>
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<tr>
<td>PUB2 111</td>
<td>3</td>
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</tr>
<tr>
<td>PUB3 116D1</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>PUB3 116D2</td>
<td>2</td>
<td>Foundations</td>
</tr>
<tr>
<td>WRIT 400D1</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
<tr>
<td>WRIT 400D2</td>
<td>3</td>
<td>Senior Essay</td>
</tr>
</tbody>
</table>

Complementary - Law

Students complete 9-15 credits of complementary courses toward the B.C.L. and LL.B. degrees.

Complementary - 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.

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<tr>
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<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 561</td>
<td>3</td>
<td>Insurance</td>
</tr>
<tr>
<td>LAWG 504</td>
<td>3</td>
<td>Death and Property</td>
</tr>
<tr>
<td>PROC 549</td>
<td>3</td>
<td>Lease, Enterprise, Suretyship</td>
</tr>
<tr>
<td>PRV2 270</td>
<td>3</td>
<td>Law of Persons</td>
</tr>
<tr>
<td>PRV4 548</td>
<td>3</td>
<td>Administration Property of Another and Trusts</td>
</tr>
</tbody>
</table>

Complementary - 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRV3 534</td>
<td>3</td>
<td>Remedies</td>
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</tr>
<tr>
<td>PRV5 582</td>
<td>2</td>
<td>Advanced Torts</td>
</tr>
</tbody>
</table>

**Complementary - Law, Civil and 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.

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CMPL 522</td>
<td>3</td>
<td>Medical Liability</td>
</tr>
<tr>
<td>LAWG 200</td>
<td>3</td>
<td>Commercial Law</td>
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<tr>
<td>LAWG 273</td>
<td>3</td>
<td>Family Law</td>
</tr>
<tr>
<td>LAWG 300</td>
<td>3</td>
<td>Family Property Law</td>
</tr>
<tr>
<td>LAWG 316</td>
<td>3</td>
<td>Private International Law</td>
</tr>
<tr>
<td>LAWG 400</td>
<td>4</td>
<td>Secured Transactions</td>
</tr>
<tr>
<td>LAWG 415</td>
<td>3</td>
<td>Evidence (Civil Matters)</td>
</tr>
<tr>
<td>LEEL 570</td>
<td>3</td>
<td>Employment Law</td>
</tr>
<tr>
<td>PRV5 483</td>
<td>3</td>
<td>Consumer Law</td>
</tr>
</tbody>
</table>

**Complementary - 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 500</td>
<td>3</td>
<td>Aboriginal Peoples and the Law</td>
</tr>
<tr>
<td>CMPL 504</td>
<td>3</td>
<td>Feminist Legal Theory</td>
</tr>
<tr>
<td>CMPL 511</td>
<td>3</td>
<td>Social Diversity and Law</td>
</tr>
<tr>
<td>CMPL 516</td>
<td>3</td>
<td>International Development Law</td>
</tr>
<tr>
<td>CMPL 565</td>
<td>3</td>
<td>International Humanitarian Law</td>
</tr>
<tr>
<td>CMPL 571</td>
<td>3</td>
<td>International Law of Human Rights</td>
</tr>
<tr>
<td>CMPL 573</td>
<td>3</td>
<td>Civil Liberties</td>
</tr>
<tr>
<td>CMPL 575</td>
<td>3</td>
<td>Discrimination and the Law</td>
</tr>
<tr>
<td>LAWG 503</td>
<td>3</td>
<td>Inter-American Human Rights</td>
</tr>
<tr>
<td>LEEL 369</td>
<td>3</td>
<td>Labour Law</td>
</tr>
<tr>
<td>LEEL 582</td>
<td>3</td>
<td>Law and Poverty</td>
</tr>
<tr>
<td>PUB2 105</td>
<td>3</td>
<td>Public International Law</td>
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<tr>
<td>PUB2 500</td>
<td>3</td>
<td>Law and Psychiatry</td>
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<td>PUB2 502</td>
<td>3</td>
<td>International Criminal Law</td>
</tr>
<tr>
<td>PUB2 551</td>
<td>3</td>
<td>Immigration and Refugee Law</td>
</tr>
<tr>
<td>PUB3 515</td>
<td>3</td>
<td>Canadian Charter of Rights and Freedoms</td>
</tr>
</tbody>
</table>

**Complementary - Law, Principles of Canadian Administrative Law**

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2 504</td>
<td>3</td>
<td>Securities Regulation</td>
</tr>
<tr>
<td>CMPL 543</td>
<td>3</td>
<td>Law and Practice of International Trade</td>
</tr>
<tr>
<td>CMPL 574</td>
<td>3</td>
<td>Government Control Of Business</td>
</tr>
<tr>
<td>CMPL 575</td>
<td>3</td>
<td>Discrimination and the Law</td>
</tr>
</tbody>
</table>
Communications Law (3) CMPL 577
Environment and the Law (3) CMPL 580
Labour Law (3) LEEL 369
Employment Law (3) LEEL 570
Law and Poverty (3) LEEL 582
Land Use Planning (3) PRV4 545
Consumer Law (3) PRV5 483
The Administrative Process (3) PUB2 400
Judicial Review of Administrative Action (3) PUB2 401
Municipal Law (2) PUB2 403
Law and Psychiatry (3) PUB2 500
Immigration and Refugee Law (3) PUB2 551
Legal Clinic 1 (3) WRIT 433D1
Legal Clinic 1 (3) WRIT 433D2
Legal Clinic 2 (3) WRIT 434
Legal Clinic 3 (3) WRIT 435
Clerkship A (3) WRIT 440
Clerkship A (3) WRIT 440D1
Clerkship A (3) WRIT 440D2
Clerkship B (3) WRIT 441

* With the approval of the Associate Dean Academic, in consultation with the Faculty Supervisors, on a case-by-case basis.

**Elective - Law, Other Courses**
Students select the remaining 19-25 credits from among Faculty of Law offerings.

**9.12.14 M.B.A. & M.D.,C.M. Program Admission Requirements and Application Procedures**

**About the M.B.A. & M.D.,C.M. Program**
The M.B.A. & M.D.,C.M. program recognizes that there is an increasing demand in the health care sector for physicians with management skills and expertise. This is a five-year program in which the first year is spent in the Desautels Faculty of Management completing the M.B.A. core as well as building a solid background in health care management. Then, students will begin their medical studies, which will be integrated with additional elective courses in management. This will provide the opportunity to train well-rounded physician-managers who can eventually pursue interesting careers in a wide range of health care facilities, from the smallest clinic to the largest tertiary health care facility, from research laboratories to university or hospital medical departments. Our graduates will also have career opportunities in the health insurance sector, which is a significant layer of the health care system in a number of countries, including the United States.

Upon graduation, students receive an M.B.A. from the Desautels Faculty of Management and an M.D.,C.M. degree from the Faculty of Medicine.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.


Offered in cooperation with the Faculty of Medicine.

For more information, contact:
Program Administrator, M.B.A. & M.D.,C.M. Program
1010 Sherbrooke Street West, Suite 1210
Montreal QC H3A 2R7
Canada

Email: aed.med@mcgill.ca

576 2018-2019, Graduate and Postdoctoral Studies, McGill University (Published March 16, 2018)
Website: www.mcgill.ca/medadmissions/programs/mdcm-mba

**9.12.14.1 Admission Requirements**

Admission requirements for the M.B.A. program can be found in *section 9.12: M.B.A. Program.* For the Faculty of Medicine admission requirements, please visit www.mcgill.ca/medadmissions/programs/mdcm-mba.

**9.12.14.2 Application Procedures**

Following the evaluation of the completed application requirements, selected candidates are invited to interviews, after which final admissions decisions are made.

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See *University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures* for detailed application procedures.

See www.mcgill.ca/medadmissions for M.D.,C.M. program application procedures.

**9.12.14.3 Application Dates and Deadlines**

For application dates and deadlines, please consult the following website: www.mcgill.ca/medadmissions/applying.


**This program is currently closed for admissions.**

For the full M.D.,C.M. curriculum please refer to http://www.mcgill.ca/study/faculties/medicine/undergraduate/programs/mdcm-doctor-medicine-and-master-surgery

**Required Courses (36 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 646</td>
<td>3</td>
<td>Health Management Capstone</td>
</tr>
<tr>
<td>BUSA 650</td>
<td>6</td>
<td>Internship</td>
</tr>
<tr>
<td>BUSA 698</td>
<td>3</td>
<td>Health Care Systems</td>
</tr>
<tr>
<td>BUSA 699</td>
<td>3</td>
<td>Health Care Management</td>
</tr>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>2</td>
<td>Business Tools</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
</tbody>
</table>

**Elective Courses (15 credits)**

Remaining courses chosen from 500- and 600-level courses offered by the Desautels Faculty of Management, and approved by M.D.,C.M. & M.B.A.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

**9.12.15 M.B.A./Japan Admission Requirements and Application Procedures**

About the M.B.A./Japan

The McGill MBA Japan program is a weekend MBA program based on the world-leading Integrative MBA program offered by McGill University's Desautels Faculty of Management in Montreal. Students will follow a lockstep program. MBA Japan classes take place at the Learning Edge Nishi-shinjuku Campus on the 4th floor of Nomura Fudosan Nishi-shinjuku building.

**Master of Business Administration (M.B.A.); M.B.A./Japan (Non-Thesis) (57 credits)**

*section 9.12.15.4: Master of Business Administration (M.B.A.) M.B.A./Japan (Non-Thesis) (51 credits)*

*section 9.12.15.5: Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Finance (57 credits)*
Master of Business Administration (M.B.A.); M.B.A./Japan (Non-Thesis) (57 credits)

section 9.12.15.6: Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): General Management (57 credits)


section 9.12.15.8: Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Marketing (57 credits)

section 9.12.15.9: Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Technology and Innovation Management (57 credits)

9.12.15.1 Admission Requirements
For more information on admission requirements, visit our website at www.mcgillmbajapan.com.

9.12.15.2 Application Procedures
For more information on application procedures, visit our website at www.mcgillmbajapan.com.

9.12.15.3 Application Dates and Deadlines
For application dates and deadlines, visit our website at www.mcgillmbajapan.com.

9.12.15.4 Master of Business Administration (M.B.A.) M.B.A./Japan (Non-Thesis) (51 credits)
** This program is currently not offered. **

9.12.15.5 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Finance (57 credits)
**This program is currently not offered.**

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill’s world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill’s home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Finance Concentration focuses on how firms raise capital and on the optimal allocation of capital for investments. This concentration prepares students for careers in corporate treasury functions, asset management, and investment banking.

Required Core Courses (21 credits)
All M.B.A. students must complete the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 629</td>
<td>(1)</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>(2)</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>(4)</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>(4)</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>(4)</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>(6)</td>
</tr>
</tbody>
</table>

Global Leadership
Business Tools
Managing Resources
Value Creation
Markets and Globalization
International Study Trip

Required Concentration Courses (6 credits)
Students choosing the Finance concentration must complete these required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINE 622</td>
<td>(3)</td>
</tr>
<tr>
<td>FINE 646</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Modern Corporate Finance
Investments and Portfolio Management

Complementary Courses (30 credits)
9 credits selected from the following courses toward the concentration:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 618</td>
<td>(3)</td>
</tr>
<tr>
<td>FINE 541</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Financial Reporting: Structure & Analysis
Applied Investments
The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

- BUSA 650 (6) Internship
- BUSA 651 (6) Practicum

**9.12.15.6 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): General Management (57 credits)**

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill’s world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill’s home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

**Required Core Courses (21 credits)**

All M.B.A. students must complete the following core courses:

- 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

**Concentration Courses (36 credits)**

Five courses (15 credits) chosen in consultation with a supervisor, from the required or complementary courses in any of the Finance, Global Strategy and Leadership, Marketing, or Technology and Innovation Management concentrations.

The remaining 21 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

- BUSA 650 (6) Internship
- BUSA 651 (6) Practicum
**9.12.15.7 Master of Business Administration (M.B.A./Japan Management (Non-Thesis): Global Strategy and Leadership (57 credits)**

**This program is currently not offered.**

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill’s world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill’s home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Global Strategy and Leadership Concentration prepares students for the challenges posed by a globalizing marketplace. The approach is cross-disciplinary and includes courses in strategy, organizational behaviour, and international business. Students will consider questions such as: What issues will the leaders of tomorrow face and how can they best tackle them? How to take a firm international? How to manage a multi-cultural workforce? How to launch a new venture? How to promote sustainable development? Students will develop skills valued by employers in consulting, business development, project management, and related fields.

**Required Core Courses (21 credits)**

All M.B.A. students must complete the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>2</td>
<td>Business Tools</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
</tbody>
</table>

**Required Concentration Courses (6 credits)**

Students choosing the Global Strategy and Leadership concentration must complete these required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGPO 683</td>
<td>3</td>
<td>International Business Policy</td>
</tr>
<tr>
<td>ORGB 685</td>
<td>3</td>
<td>Cross Cultural Management</td>
</tr>
</tbody>
</table>

**Complementary Courses (30 credits)**

9 credits selected from the following courses toward the concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 640</td>
<td>3</td>
<td>Launching New Ventures</td>
</tr>
<tr>
<td>BUSA 660</td>
<td>3</td>
<td>CEO Insights</td>
</tr>
<tr>
<td>BUSA 690</td>
<td>3</td>
<td>Advanced Topics in Management 1</td>
</tr>
<tr>
<td>INDR 633</td>
<td>3</td>
<td>Creating Wealth and Prosperity</td>
</tr>
<tr>
<td>MGPO 615</td>
<td>3</td>
<td>Consulting for Change</td>
</tr>
<tr>
<td>MGPO 630</td>
<td>3</td>
<td>Managing Strategy and Innovation</td>
</tr>
<tr>
<td>MGPO 638</td>
<td>3</td>
<td>Managing Organizational Politics</td>
</tr>
<tr>
<td>MGPO 640</td>
<td>3</td>
<td>Strategies for Sustainable Development</td>
</tr>
<tr>
<td>MGPO 645</td>
<td>3</td>
<td>Strategy in Context</td>
</tr>
<tr>
<td>MGPO 651</td>
<td>3</td>
<td>Strategic Management: Developing Countries</td>
</tr>
<tr>
<td>MGPO 669</td>
<td>3</td>
<td>Managing Globalization</td>
</tr>
<tr>
<td>ORGB 633</td>
<td>3</td>
<td>Managerial Negotiations</td>
</tr>
<tr>
<td>ORGB 640</td>
<td>3</td>
<td>The Art of Leadership</td>
</tr>
</tbody>
</table>

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.
The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill’s world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill’s home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Marketing Concentration focuses on the development of skills in understanding customers and markets, creating value through products and services, evaluating the effectiveness of marketing programs, and managing customer relationships.

### Required Core Courses (21 credits)
All M.B.A. students must complete the following core courses:

- **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

### Required Concentration Courses (6 credits)
Students choosing the Marketing concentration must complete these required courses:

- **MRKT 657 (3)** Customer Insights
- **MRKT 658 (3)** Marketing Intelligence

### Complementary Courses (30 credits)
9 credits selected from the following courses toward the concentration:

- **INSY 645 (3)** Managing Electronic Commerce
- **MRKT 645 (3)** Winning at Brands
- **MRKT 652 (3)** Competitive Marketing Strategy
- **MRKT 654 (3)** Marketing Communications
- **MRKT 655 (3)** Marketing Planning
- **MRKT 659 (3)** Advanced Business Marketing
- **MRKT 690 (3)** Advanced Topics in Marketing I
- **MRKT 698 (3)** International Marketing Management

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

- **BUSA 650 (6)** Internship
BUSA 651 (6) Practicum

9.12.15.9 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Technology and Innovation Management (57 credits)

**This program is currently not offered.**

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill’s world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill’s home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

As technology reshapes the globe and innovations transform markets and organizations, the 21st century manager will be deeply immersed in technology and innovation management. As information technology is now present in more products and processes, managers need to understand the processes surrounding its strategic use and development. As manufacturing and service operations now stretch the globe, issues of logistics and supply chain integration become more important. As innovative products increasingly create and transform markets, managers must master the technology development process. This concentration provides tools, frameworks, and integration of all aspects of organizational operations, supply chain, IT processes and innovation management. Students following this concentration will be uniquely qualified to take jobs in new product development, IT strategy, operations and supply chain management, and technology consulting. A unique aspect of the concentration is the capstone project course where students work on solving a real-life technology innovation problem.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>2</td>
<td>Business Tools</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>4</td>
<td>Managing Resources</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>4</td>
<td>Value Creation</td>
</tr>
<tr>
<td>MGCR 653</td>
<td>4</td>
<td>Markets and Globalization</td>
</tr>
<tr>
<td>MGCR 660</td>
<td>6</td>
<td>International Study Trip</td>
</tr>
</tbody>
</table>

Required Concentration Courses (6 credits)

Students choosing the Technology and Innovation Management concentration must complete these required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSY 606</td>
<td>3</td>
<td>Technology Management</td>
</tr>
<tr>
<td>MGSC 616</td>
<td>3</td>
<td>Technology in Action</td>
</tr>
</tbody>
</table>

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSY 607</td>
<td>3</td>
<td>Technology Consulting</td>
</tr>
<tr>
<td>INSY 608</td>
<td>3</td>
<td>Winning with IT</td>
</tr>
<tr>
<td>INSY 609</td>
<td>3</td>
<td>Technology Project Management</td>
</tr>
<tr>
<td>INSY 633</td>
<td>3</td>
<td>Knowledge Management and Technology for Innovation</td>
</tr>
<tr>
<td>INSY 645</td>
<td>3</td>
<td>Managing Electronic Commerce</td>
</tr>
<tr>
<td>MGPO 650</td>
<td>3</td>
<td>Managing Innovation</td>
</tr>
<tr>
<td>MGSC 602</td>
<td>3</td>
<td>Strategic Management of Operations</td>
</tr>
<tr>
<td>MGSC 603</td>
<td>3</td>
<td>Logistics Management</td>
</tr>
<tr>
<td>MGSC 605</td>
<td>3</td>
<td>Total Quality Management</td>
</tr>
<tr>
<td>MGSC 615</td>
<td>3</td>
<td>Procurement and Distribution</td>
</tr>
<tr>
<td>MGSC 631</td>
<td>3</td>
<td>Analysis: Production Operations</td>
</tr>
<tr>
<td>ORGB 625</td>
<td>3</td>
<td>Managing Organizational Change</td>
</tr>
</tbody>
</table>
The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:
- BUSA 650 (6) Internship
- BUSA 651 (6) Practicum

9.12.16 Joint Executive M.B.A. Admission Requirements and Application Procedures

About the Joint Executive M.B.A.

The E.M.B.A. program is designed both to teach new managerial tools as well as to allow managers to take a step back from the tools and understand their strengths and limitations. It also aims at presenting different models of management and is designed to meet the training needs of managers who currently hold, or who will hold in the future, senior management positions.

It is offered jointly with Hautes Études Commerciales (HEC) – Montreal.

9.12.16.1 Admission Requirements

For the admission criteria, please consult the following website: www.embamcgillhec.ca/en/application/admission-criteria.

9.12.16.2 Application Procedures

For the application procedures, please consult the following website: www.embamcgillhec.ca/en/application.

9.12.16.3 Application Dates and Deadlines

For the application dates and deadlines, please consult the following website: www.embamcgillhec.ca/en/application.


Required Courses (45 credits)

McGill University courses (33 credits)
- BUSA 642 (4) Reflective Dimension Manager Role
- BUSA 643 (4) Collaborative Dimension Manager
- BUSA 644 (4) Analytic Dimension of Manager Role
- BUSA 645 (4) Worldly Dimension of Manager Role
- BUSA 685 (5) Managing Change
- BUSA 689 (12) Integrative Project

HEC Montréal courses (12 credits)
- MHEC 600 (4) Création de valeur
- MHEC 601 (4) Excellence opérationnelle
- MHEC 602 (4) Outils et pratiques de gestion

9.13 Master of Management Programs Admission Requirements and Application Procedures

About Master of Management Programs
section 9.13.3: Master of Management (M.M.) Analytics (Non-Thesis) (45 credits)

The M.M. Analytics is designed to teach the fundamentals of data and decision analytics, team management, and leadership. Students are exposed to a variety of management analytics application topics including marketing, retailing, supply chain, healthcare, security, pricing, talent, and network analytics. An experiential component consists of a capstone management analytics project and a study trip, both designed to provide students with the experience of hands-on application of the concepts taught in real-world settings and the opportunity to interact with practitioners in leading analytics organizations.

section 9.13.4: Master of Management (M.M.) Finance (Non-Thesis) (45 credits)

For more information, visit our website at www.mcgill.ca/desautels/programs/mmf.

section 9.13.5: Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

The Master of Manufacturing Management (M.M.M.) program is currently not offered at McGill University. Alternatively, a Master in Global Manufacturing and Supply Chain Management (MGMSCM) program is offered at Zhejiang University (Hangzhou, China). It follows the same curriculum as the M.M.M. program and is offered on a part-time basis at Zhejiang University (with options for a semester of courses in Montreal and a summer trip). As part of Master in Global Manufacturing and Supply Chain Management initiative, students having completed the MGMSCM program could then transfer the acquired credits to apply toward Zhejiang's M.B.A. degree. Students having successfully completed all requirements for Zhejiang's MGMSCM program would have two degrees: an M.M.M. from McGill and an M.B.A from Zhejiang.

The program is instructed in English. It is targeted at high-potential managers in manufacturing, services, and logistics industries as well as entrepreneurs. Find out more about Zhejiang University's MGMSCM program in China.

section 9.13.6: Master of Management (M.M.) IMPM (Non-Thesis) (45 credits)

Engaging managers beyond administration and functioning within an authentically international context, this collaborative venture of business schools located in five different countries allows mid-career managers to study and focus on their own organizational and leadership issues with other international managers at universities in Brazil, England, India, China, and Canada.

For more information, visit our website at www.impm.org.

section 9.13.7: Master of Management (M.M.) IMPMHL (Non-Thesis) (45 credits)

Applying an experience-based approach to leadership development, this program will recruit practising managers and professionals throughout the health field, and from all parts of the world, to learn from distinguished faculty and each other, and gain a better understanding of their own leadership and managerial styles, the systems in which they work, their organizational contexts, and the work relationships they must build in order to achieve meaningful change.

For more information, visit our website at www.mcgill.ca/desautels/programs/imhl.

9.13.1 Admission Requirements and Application Procedures

- Analytics: For more information, please refer to www.mcgill.ca/desautels/programs/mma/admissions.
- Finance: For more information, please refer to www.mcgill.ca/desautels/programs/mmf/admissions.
- MGMSCM China: For more information, please refer to www.mcgill.ca/desautels/programs/gmscm/admissions.
- IMPM: For more information, please refer to www.impm.org.
- IMHL: For more information, please refer to www.mcgill.ca/desautels/programs/imhl/applying.

9.13.2 Application Dates and Deadlines

- Analytics: For more information, please refer to www.mcgill.ca/desautels/programs/mma/admissions.
- Finance: For more information, please refer to www.mcgill.ca/desautels/programs/mmf/admissions.
- MGMSCM China: For more information, please refer to www.mcgill.ca/desautels/programs/gmscm/admissions.
- IMPM: For more information, please refer to www.impm.org/admissions.
- IMHL: The next cohort will begin studies in April 2018. For more information, please refer to www.mcgill.ca/desautels/programs/imhl/applying.
9.13.3 Master of Management (M.M.) Analytics (Non-Thesis) (45 credits)

The core module is designed to teach the fundamentals of data and decision analytics, team management, and leadership. The complementary course module is designed to expose students to a variety of management analytics application topics including marketing, retailing, supply chain, healthcare, security, pricing, talent and network analytics. Finally, the experiential module, which consists of a capstone management analytics project and a study trip, is designed to provide students with the experience of hands-on application of the concepts taught in real-world settings and the opportunity to interact with practitioners in leading analytics organizations.

Required Courses (30 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 684</td>
<td>(3)</td>
<td>Analytic Study Trip</td>
</tr>
<tr>
<td>BUSA 693</td>
<td>(6)</td>
<td>Management Analytics Capstone</td>
</tr>
<tr>
<td>INSY 660</td>
<td>(3)</td>
<td>Coding Foundations for Analytics</td>
</tr>
<tr>
<td>INSY 661</td>
<td>(3)</td>
<td>Database and Distributed Systems for Analytics</td>
</tr>
<tr>
<td>INSY 662</td>
<td>(3)</td>
<td>Data Mining and Visualization</td>
</tr>
<tr>
<td>MGSC 660</td>
<td>(3)</td>
<td>Mathematical and Statistical Foundations for Analytics</td>
</tr>
<tr>
<td>MGSC 661</td>
<td>(3)</td>
<td>Multivariate Statistical Analysis</td>
</tr>
<tr>
<td>MGSC 662</td>
<td>(3)</td>
<td>Decision Analytics</td>
</tr>
<tr>
<td>ORGB 660</td>
<td>(1.5)</td>
<td>Managing Data Analytics Teams</td>
</tr>
<tr>
<td>ORGB 661</td>
<td>(1.5)</td>
<td>Ethical Leadership and Leading Change</td>
</tr>
</tbody>
</table>

Complementary Courses (15 credits)

15 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 696</td>
<td>(1.5)</td>
<td>Advanced Topics in Accounting Analytics</td>
</tr>
<tr>
<td>FINE 695</td>
<td>(1.5)</td>
<td>Advanced Topics in Finance Analytics 1</td>
</tr>
<tr>
<td>FINE 696</td>
<td>(1.5)</td>
<td>Advanced Topics in Finance Analytics 2</td>
</tr>
<tr>
<td>INSY 670</td>
<td>(1.5)</td>
<td>Analytics for Digital Business Models</td>
</tr>
<tr>
<td>INSY 671</td>
<td>(1.5)</td>
<td>Analytics and Open Innovation</td>
</tr>
<tr>
<td>INSY 672</td>
<td>(1.5)</td>
<td>Healthcare Analytics</td>
</tr>
<tr>
<td>INSY 673</td>
<td>(1.5)</td>
<td>Security Analytics</td>
</tr>
<tr>
<td>INSY 695</td>
<td>(1.5)</td>
<td>Advanced Topics in Information Systems</td>
</tr>
<tr>
<td>MGPO 695</td>
<td>(1.5)</td>
<td>Advanced Topics in Strategy Analytics</td>
</tr>
<tr>
<td>MGSC 670</td>
<td>(1.5)</td>
<td>Revenue Management</td>
</tr>
<tr>
<td>MGSC 672</td>
<td>(1.5)</td>
<td>Operations and Supply Chain Analytics</td>
</tr>
<tr>
<td>MGSC 695</td>
<td>(1.5)</td>
<td>Advanced Topics in Management Science</td>
</tr>
<tr>
<td>MRKT 671</td>
<td>(1.5)</td>
<td>Advanced Marketing Analytics</td>
</tr>
<tr>
<td>MRKT 672</td>
<td>(1.5)</td>
<td>Internet Marketing Analytics</td>
</tr>
<tr>
<td>MRKT 673</td>
<td>(1.5)</td>
<td>Pricing Analytics</td>
</tr>
<tr>
<td>MRKT 674</td>
<td>(1.5)</td>
<td>Retail Analytics</td>
</tr>
<tr>
<td>MRKT 696</td>
<td>(1.5)</td>
<td>Advanced Topics in Marketing Analytics</td>
</tr>
<tr>
<td>ORGB 671</td>
<td>(1.5)</td>
<td>Talent Analytics</td>
</tr>
<tr>
<td>ORGB 672</td>
<td>(1.5)</td>
<td>Organizational Network Analysis</td>
</tr>
<tr>
<td>ORGB 695</td>
<td>(1.5)</td>
<td>Advanced Topics in Organizational Behaviour</td>
</tr>
</tbody>
</table>
9.13.4 Master of Management (M.M.) Finance (Non-Thesis) (45 credits)

**This program is currently under revision.**

The Master of Management in Finance (M.M.F.) program is a twelve-month specialized M.M. program. The program is part of the Faculty's expanding portfolio of specialized MM programs. The distinguishing features of the program are: 1) a quantitative level well above the average current M.B.A. elective and 2) a close interaction with the private sector. The crucial 12-credit major paper requirement is fulfilled either by 1) completing a three-month internship on a financial project with a corporation and writing a detailed report; or by 2) writing an academic research paper. The program will contain an investment and corporate finance focus, and it will have an advisory board of executives from financial and non-financial corporations.

**Required Courses (33 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 604</td>
<td>3</td>
<td>Financial Statements I</td>
</tr>
<tr>
<td>FINE 673</td>
<td>3</td>
<td>Finance Fundamentals</td>
</tr>
<tr>
<td>FINE 678</td>
<td>3</td>
<td>Financial Economics</td>
</tr>
<tr>
<td>FINE 679</td>
<td>3</td>
<td>Corporate Finance Theory</td>
</tr>
<tr>
<td>FINE 680</td>
<td>3</td>
<td>Investments</td>
</tr>
<tr>
<td>FINE 681</td>
<td>3</td>
<td>International Capital Markets</td>
</tr>
<tr>
<td>FINE 682</td>
<td>3</td>
<td>Derivatives</td>
</tr>
<tr>
<td>FINE 689</td>
<td>12</td>
<td>Integrative Finance Project</td>
</tr>
<tr>
<td>FINE 689N1</td>
<td>6</td>
<td>Integrative Finance Project</td>
</tr>
<tr>
<td>FINE 689N2</td>
<td>6</td>
<td>Integrative Finance Project</td>
</tr>
</tbody>
</table>

**Complementary Courses (12 credits)**

12 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 605</td>
<td>3</td>
<td>Financial Statements 2</td>
</tr>
<tr>
<td>FINE 683</td>
<td>3</td>
<td>Advanced Corporate Finance</td>
</tr>
<tr>
<td>FINE 684</td>
<td>3</td>
<td>Fixed Income Analysis</td>
</tr>
<tr>
<td>FINE 685</td>
<td>3</td>
<td>Market Risk Management</td>
</tr>
<tr>
<td>FINE 686</td>
<td>3</td>
<td>Global Corporate Finance</td>
</tr>
<tr>
<td>FINE 687</td>
<td>3</td>
<td>Global Investments</td>
</tr>
<tr>
<td>FINE 688</td>
<td>3</td>
<td>Mergers and Acquisitions</td>
</tr>
</tbody>
</table>

or any other relevant 500-700 level course offered in the University with permission of the Program Adviser.

9.13.5 Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

**This program is currently not offered.**

We are in the process of revising the curriculum of the program to enhance its quality and relevance, while keeping the focus still on designing and managing global supply chains for manufacturing and service organizations.

**Required Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 524</td>
<td>3</td>
<td>Computer Integrated Manufacturing</td>
</tr>
<tr>
<td>MECH 627</td>
<td>9</td>
<td>Manufacturing Industrial Stage</td>
</tr>
<tr>
<td>MECH 628</td>
<td>2</td>
<td>Manufacturing Case Studies</td>
</tr>
<tr>
<td>MECH 629</td>
<td>1</td>
<td>Manufacturing Industrial Seminar</td>
</tr>
<tr>
<td>MGSC 602</td>
<td>3</td>
<td>Strategic Management of Operations</td>
</tr>
<tr>
<td>MGSC 603</td>
<td>3</td>
<td>Logistics Management</td>
</tr>
<tr>
<td>MGSC 605</td>
<td>3</td>
<td>Total Quality Management</td>
</tr>
</tbody>
</table>
Complementary Courses (26 credits)

8 credits from General Business & Management Training
6 credits from General Business & Management
12 credits from Manufacturing & Supply Chain

General Business & Management Training (8 credits)
8 credits from Group A or Group B:

Group A
MGCR 651 (4) Managing Resources
MGCR 652 (4) Value Creation

Group B
MGCR 611 (2) Financial Accounting
MGCR 612 (2) Organizational Behaviour
MGCR 616 (2) Marketing
MGCR 641 (2) Elements of Modern Finance 1

General Business & Management
6 credits from the following:

ACCT 624 (3) Management Accounting: Planning & Control
INDR 603 (3) Industrial Relations
ORGB 625 (3) Managing Organizational Change
ORGB 632 (3) Managing Teams in Organizations
ORGB 633 (3) Managerial Negotiations
ORGB 640 (3) The Art of Leadership
ORGB 685 (3) Cross Cultural Management

Manufacturing & Supply Chain
12 credits from:

MECH 526 (3) Manufacturing and the Environment
MECH 528 (3) Product Design
MECH 529 (3) Discrete Manufacturing Systems
MGSC 578 (3) Simulation of Management Systems
MGSC 615 (3) Procurement and Distribution

9.13.6 Master of Management (M.M.) IMPM (Non-Thesis) (45 credits)

Research Project (12 credits)
BUSA 689 (12) Integrative Project
Required Courses (33 credits)

- BUSA 666 (5) The Practice of Management
- BUSA 668 (5) The Venture
- BUSA 670 (5) Managing Organizations
- BUSA 672 (3) Managerial Exchange
- BUSA 675 (5) Managing Context
- BUSA 680 (5) Managing People
- BUSA 685 (5) Managing Change

9.13.7 Master of Management (M.M.) IMPMHL (Non-Thesis) (45 credits)

The M.M. in International Masters for Practicing Managers in Health Leadership; Non-Thesis program is designed for clinicians and managers in the context of health care to help develop management skills for emerging health care leaders. This is a 15-month program made up five 12-day modules, followed by a Master's paper.

Required Courses (45 credits)

- BUSA 663 (6) Reflective Mindset
- BUSA 667 (6) Analytic Mindset
- BUSA 671 (3) Managerial Experience
- BUSA 676 (6) Worldly Mindset
- BUSA 677 (6) Collaborative Mindset
- BUSA 678 (6) Catalytic Mindset
- BUSA 694 (12) Final Master's Paper

9.14 Joint Ph.D. in Management Admission Requirements and Application Procedures

About the Joint Ph.D. in Management

Ph.D. Program Office
Desautels Faculty of Management
McGill University
1001 Sherbrooke Street West
Montreal QC H3A 1G5
Canada
Telephone: 514-398-4060
Fax: 514-398-3876
Email: phd.mgmt@mcgill.ca
Website: www.mcgill.ca/desautels/programs/phd


The Ph.D. Program participates in the Joint Ph.D. Program that brings together the four Montreal universities: Concordia University, École des Hautes Études Commerciales (affiliated with Université de Montréal), McGill University, and Université de Québec à Montréal. The Ph.D. program in Management is intended to educate competent researchers and to stimulate research on management issues.

The program represents a number of innovations in doctoral work in the field of administration. First, by cooperating, the four universities are able to make available to the program's students a diverse pool of approximately 400 professors qualified to direct doctoral-level study and research. Second, the program has been carefully developed to encourage independent, creative work on the part of its students, with close, personal contact with the professors. This program will appeal especially to the mature, experienced candidate with relatively well-defined interests. Across the four member universities, some courses are offered in English and some in French. (All papers may, however, be written in English or French.) This is viewed as a definite advantage of the program for those students who expect to work in Canada or francophone countries after graduation.
The program places considerable emphasis on the theoretical foundations of management and its underlying disciplines. Graduates of the program are expected to have: (1) some knowledge of all the main areas of management, (2) a thorough knowledge of one applied area of management, and one support discipline, (3) a complete command of the research methodologies used in management, and (4) some familiarity with modern theories and methods of the pedagogy of management.

The program consists of three phases: preparation, specialization, and dissertation.

**Preparation – Phase I**

Before entering the program, the student will have selected the area of specialization from the following areas/options:

- Accounting
- Finance
- Information Systems
- Marketing
- Operations Management
- Organizational Behaviour
- Strategy and Organization
- Environment Option*

Some students—notably those with strong master's degrees in administration or related disciplines—have a minimum of work in Phase I; others require up to one academic year of work.

**Specialization – Phase II**

In Phase II, students probe deeply into their chosen area of specialization. With their Advisory Committee, students work out an individual program of study, which takes about 18 months. The phase focuses on a specialization area and a support field. The specialization area could be one of the basic ones listed in Phase I (for example, marketing or operations management), a sub-area within one of these (such as organizational development within organizational behaviour), or an interdisciplinary area that combines two or more of these (such as behaviour aspects of accounting or international marketing).

The support field is selected to help the student develop a foundation of knowledge in a fundamental discipline that underlies the theory in administration. For example, a student in marketing might select psychology, sociology, or statistics. One in management policy might select political science or general systems theory, or perhaps even philosophy. Other choices are possible.

Students officially enter Phase II of the program when their Advisory Committee has been established and, together with the student, formally agrees on a proposal for the work to be done in Phase II. The Phase II Form (Advisory Committee) must be approved by the McGill and the Joint Doctoral Committees.

This includes the following:

- Doctoral seminars in the specialization area; minimum four courses
- Any other existing graduate-level courses in the specialization area and support field deemed appropriate by the Advisory Committee; minimum two courses in support field
- Seminar on Research Methodology (MGMT 707, 3 credits) or equivalent approved graduate-level course
- Seminar in Pedagogy (MGMT 706, 3 credits) or Teaching and Learning in Higher Education (EDPH 689, 3 credits)
- Comprehensive Examination (MGMT 701, 0 credits)
- A publishable research paper (MGMT 720, 3 credits)

The Advisory Committee will normally consist of at least three persons; a Chair and others decided upon jointly by the Chair and the student. One of these members will typically come from the support field. Every student's Advisory Committee must have representation from at least two universities in the joint program.

**Dissertation – Phase III**

The third phase of the program consists of the dissertation in the course of which the student probes deeply into a well-defined research topic. The topic is developed with the Thesis Committee (at least three members), which may be the same as the Phase II Advisory Committee or may be reconstituted, again with representation from at least one of the other participating universities. The topic is approved formally by the Thesis Advisory Committee and, once the research is completed and the dissertation written, the student publicly defends the completed thesis. The Phase III Form (Advisory Committee) must be approved by the McGill and the Joint Doctoral Committees.

* section 9.14.5: Doctor of Philosophy (Ph.D.) Management: Environment

The Ph.D. program option in Environment is intended to develop an understanding of how knowledge is transferred into action with regard to the environment. It provides a forum whereby students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking.

### 9.14.1 Admission Requirements

Candidates normally hold a master's-level degree, with a strong academic record from a recognized university.
GMAT (or GRE–General Test) results are required for all applications to the doctoral program; this includes McGill master's students applying to the Ph.D. The minimum GMAT (or GRE–General Test) score required is 70% equivalency. Tests must have been written within the past five years.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. An institutional version of TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available. A minimum score of 100 for the Internet-based test, with each component score not less than 20, is required for admission. A minimum score of 7 for IELTS is required. Tests must have been written within the past two years.

Files will not be considered unless GMAT (or GRE-General Test) and TOEFL scores are received by the Application Deadline.

9.14.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

9.14.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- GMAT (or GRE-General Test) written within the past 5 years
- Responses to Personal Statement questions
- Curriculum Vitae

9.14.3 Application Dates and Deadlines

For application dates and deadlines, please consult the following website: www.mcgill.ca/desautels/programs/phd/admissions/deadline.

9.14.4 Doctor of Philosophy (Ph.D.) Management

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Note: Students can take MGMT 706 or EDPH 689.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPH 689</td>
<td>(3)</td>
<td>Teaching and Learning in Higher Education</td>
</tr>
<tr>
<td>MGMT 701</td>
<td>(0)</td>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>MGMT 706</td>
<td>(3)</td>
<td>Seminar in Pedagogy</td>
</tr>
<tr>
<td>MGMT 707</td>
<td>(3)</td>
<td>Research Methodology</td>
</tr>
<tr>
<td>MGMT 720</td>
<td>(3)</td>
<td>Research Paper</td>
</tr>
</tbody>
</table>

Complementary Courses (18 credits)

- 12 credits of specialization courses
- 6 credits in the support field

9.14.5 Doctor of Philosophy (Ph.D.) Management: Environment

The new Environment Option provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence that political, socioeconomic and ethical judgments have. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other’s learning through structured courses, formal seminars, and informal discussions and networking. Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (15 credits)**

Note: Students can take MGMT 706 or EDPH 689.

- EDPH 689 (3) Teaching and Learning in Higher Education
- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3
- MGMT 701 (0) Comprehensive Examination
- MGMT 706 (3) Seminar in Pedagogy
- MGMT 707 (3) Research Methodology
- MGMT 720 (3) Research Paper

**Complementary Courses (15 credits)**

12 credits of courses/seminars at the 500-level or higher in the student's management specialization area in consultation with student's advisory committee.

3 credits chosen from the following list:

- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

Or another course at the 500-level or higher recommended by the advisory committee and approved by the Environment Option Committee.

### 9.15 Post-M.B.A. Graduate Certificates Admission Requirements and Application Procedures

**About the Post-M.B.A. Graduate Certificate**

The graduate certificate meets the needs of two groups of professional managers:

1. Managers who graduated from an M.B.A. program several years ago and would like to take a series of courses to update their skills; and
2. Managers who graduated from an M.B.A. program recently and who would like to broaden the base of their education with a selection of courses that complement their major field of studies.

The graduate certificate may be taken on a full-time or part-time basis.

The entrance requirement is an M.B.A. degree from a recognized university with a CGPA that meets the minimum requirements of Graduate and Postdoctoral Studies. Two official transcripts of grades and degree confirmations from all universities attended are required. These include universities attended on exchange or as visiting students. For international applicants, the academic records and verifying degree conferrals must be submitted in the original language with official translations, listing courses and grades for each year of study. These documents must bear the actual signature of the registrar and the official seal or stamp of the institution.

**About the Post-M.B.A. Japan Graduate Certificate**

For more information, please refer to mcgillmbajapan.com/admissions/post-mba-certificate-apply.

*section 9.15.4: Graduate Certificate (Gr. Cert.) Post MBA (15 credits)*

This program is no longer accepting new students.
# Graduate Certificate Post MBA Japan (15 credits)

For more information, please click on the above link.

## 9.15.1 Admission Requirements

- **Graduate Certificate Post-M.B.A.:** Graduate Management Admission Test (GMAT).
  
  A TOEFL test is also required to determine the English proficiency of applicants whose mother tongue is not English. Applicants are additionally expected to have completed two years of full-time work experience before submitting their application to the Post-M.B.A. program.
  
  For more information visit our website at [www.mcgill.ca/desautels/programs](http://www.mcgill.ca/desautels/programs) or call the Master Programs Office at 514-398-4066.

- **Graduate Certificate Post-M.B.A. Japan:** For more information, please refer to [mcgillmbajapan.com/admissions/post-mba-certificate-apply](http://mcgillmbajapan.com/admissions/post-mba-certificate-apply).

## 9.15.2 Application Procedures

- **Graduate Certificate Post-M.B.A.:** This program is no longer accepting new students.

- **Graduate Certificate Post-M.B.A. Japan:** For more information, please refer to [mcgillmbajapan.com/admissions/post-mba-certificate-apply](http://mcgillmbajapan.com/admissions/post-mba-certificate-apply).

## 9.15.3 Application Dates and Deadlines

- **Graduate Certificate Post-M.B.A.:** This program is no longer accepting new students.

- **Graduate Certificate Post-M.B.A. Japan:** For more information, please refer to [mcgillmbajapan.com/admissions/post-mba-certificate-apply](http://mcgillmbajapan.com/admissions/post-mba-certificate-apply).

## 9.15.4 Graduate Certificate (Gr. Cert.) Post MBA (15 credits)

This program is no longer accepting new students.

### Required Courses

15 credits of M.B.A. courses.

## 9.15.5 Graduate Certificate (Gr. Cert.) Post MBA Japan (15 credits)

### Required Courses

15 credits of M.B.A./Japan courses.

## 9.16 Graduate Certificate in Professional Accounting (GCPA) Admission Requirements and Application Procedures

### About the Graduate Certificate in Professional Accounting (GCPA)

The McGill GCPA program at Desautels is an accredited Professional Education Program (PEP) of CPA Quebec. The program is designed to provide students with professional training on the latest CPA concepts and practice-related issues while preparing them to write the national Common Final Examination (CFE). Completion of a PEP and passing the CFE are two of the required components for obtaining the highly respected CPA designation. Combining McGill's international reputation and top professors, McGill's GCPA program ensures that graduates can make professional judgment using financial information in a global business environment.

The GCPA program is intended to allow students to develop professional skills that will be recognized nationally and internationally. The program focuses on the acquisition and integration of in-depth specialized knowledge in fields in which engagements are likely to be entrusted to CPAs. More specifically, the objective of the Graduate Certificate is to develop the technical and enabling skills outlined by CPA Canada and needed for the exercise of professional judgment necessary to solve practical problems related to the practice of professional accounting. Our lecturers are hard-working, dedicated, and motivated to making our students succeed in the program.

The GCPA program, coupled with a 24-month recognized training period, provides students with the academic and professional business training, communication and interpersonal skills needed to succeed in a CPA career.
9.16.1 Admission Requirements

Entry to the GCPA program requires a minimum cumulative grade point average (CGPA) of 3.0 on a 4.0 scale. Admission to the program is highly competitive and meeting the minimum requirements does not secure entry into the GCPA program.

**Option 1:**
Applicants who complete a Canadian Bachelor of Commerce program must complete the following courses, or their equivalents, with minimum grades of B-:

- ACCT 351 Intermediate Financial Accounting 1
- ACCT 352 Intermediate Financial Accounting 2
- ACCT 361 Management Accounting
- ACCT 362 Cost Accounting
- ACCT 385 Principles of Taxation
- ACCT 453 Advanced Financial Accounting
- ACCT 463 Management Control
- ACCT 475 Principles of Auditing
- ACCT 486 Business Taxation 2
- BUSA 364 Business Law 1
- FINE 342 Corporate Finance

Applicants must also meet the requirements outlined by L'Ordre des comptables professionnels agréés du Québec (OCPAQ) for the university where they obtained their undergraduate degree. Applicants who obtained their undergraduate degree in a different province must also verify the requirements outlined by the CPA Order of that province.

**Option 2:**
Graduates of programs other than a Canadian Bachelor of Commerce, or graduates with foreign degrees must complete the **Diploma (Dip.) Accounting (30 credits)** at the School of Continuing Studies and complete additional courses as necessary to satisfy the following 14 prerequisite courses, with minimum grades of B-.

- CCFC 511 Financial Accounting 1
- CCFC 512 Financial Accounting 2
- CCFC 513 Financial Accounting 3
- CCMA 511 Managerial Accounting 1
- CCMA 522 Managerial Accounting 2
- CCMA 523 Managerial Accounting 3
- CCAU 511 Auditing 1
- CCTX 511 Taxation 1
- CCTX 532 Taxation 2
- CFIN 512 Corporate Finance
- CCLW 511 Law 1
- CFIN 522 Applied Topics: Corporate Finance
- CMIS 541 Information Systems for Managers
- CPL2 552 Strategic Management

For more information, you may contact the School of Continuing Studies directly:

- 688 Sherbrooke Street West, 11th floor
- Telephone: 514-398-6200
- Email: info.conted@mcgill.ca
- Website: www.mcgill.ca/continuingstudies

9.16.2 Application Procedures

Online applications for the GCPA program can be submitted through McGill's uApply. For details please visit Ready to apply?

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures and the GCPA program website for details about submitting your application.

A deferral of admission may be considered in exceptional cases upon evidence of extenuating circumstances for one year only. A request may be submitted by the student through uApply and evaluated by the GCPA Office.

**Time Limits**

The program must be completed within three years of admission.
9.16.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Applicants who have been accepted to the GCPA program are required to make a CAD$300 deposit via uApply when confirming the offer of admission. This fee is non-refundable and will be applied towards the student’s tuition.

9.16.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Desautels Faculty of Management and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term: N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Winter Term: N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term: Oct. 1</td>
<td>Dec. 15</td>
</tr>
</tbody>
</table>

9.16.4 Obtaining a CPA designation

To obtain the CPA designation in Quebec, a student must have:

1. Completed a Professional Education Program (PEP)
2. Passed the Common Final Examination (CFE)
3. Served a two-year practical training period with an accredited training office (it is the student's responsibility to obtain such employment)
4. Passed the French language examination

Once all these criteria have been met, the student will obtain the designation of Chartered Professional Accountant from the OCPAQ.

Further information can be obtained from:

Ordre des comptables professionnels agréés du Québec
5, Place Ville Marie, bureau 800
Montréal QC H3B 2G2
Canada

Telephone: 514-288-3256 or 1-800-363-4688 (toll free)
Email: info@cpaquebec.ca
Web: cpaquebec.ca

9.16.5 Graduate Certificate (Gr. Cert.) Professional Accounting (24 credits)

The Graduate Certificate in Professional Accounting is a recognized professional education program (PEP) des Ordre des Comptables Professionnels Agréés du Québec (OCPAQ). The program prepares students for a career as a professional accountant and to write the national CPA Common Final Exams. It allows students to develop professional skills that will be recognized nationally and internationally. Students are exposed to the latest concepts and practice related issues and have the choice of studying in the areas of public accounting (assurance), performance measurement, taxation, or financial business analysis.

Prerequisite Courses for Canadian B.Com. Students (33 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 453 (3) Advanced Financial Accounting
ACCT 463 (3) Management Control
ACCT 475 (3) Principles of Auditing
ACCT 486 (3) Business Taxation 2
BUS 364 (3) Business Law 1
FINE 342 (3) Corporate Finance

Prerequisite Courses for Diploma in Accounting Students (42 credits)
CCAU 511 (3) Auditing 1
CCFC 511 (3) Financial Accounting 1
CCFC 512 (3) Financial Accounting 2
CCFC 513 (3) Financial Accounting 3
CCLW 511 (3) Law 1
CCMA 511 (3) Managerial Accounting 1
CCMA 522 (3) Managerial Accounting 2
CCMA 523 (3) Managerial Accounting 3
CCTX 511 (3) Taxation 1
CCTX 532 (3) Taxation 2
CFIN 512 (3) Corporate Finance
CFIN 522 (3) Applied Topics: Corporate Finance
CMIS 541 (3) Information Systems for Managers
CPL2 552 (3) Strategic Management

Required Courses (16 credits)
ACCT 653 (3) Issues in Professional Accounting 1
ACCT 654 (3) Issues in Professional Accounting 2
ACCT 663 (3) Strategic Aspects of Accounting 1
ACCT 664 (3) Strategic Aspects of Accounting 2
ACCT 695 (4) Integrative Analysis

Complementary Courses (8 credits)
8 credits from the following:
ACCT 683 (4) Practice of Taxation
ACCT 685 (4) Accounting and Performance Management
ACCT 687 (4) Assurance Services
ACCT 689 (4) Financial Business Analysis
ACCT 699 (0) Exam Preparation Seminar

9.17 Desautels Faculty of Management Academic Staff

Dean
Isabelle Bajeux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI & Paris IX), Doctorat(Paris IX)
Executive Committee

Morty Yalovsky – Vice-Dean, Faculty Programs
Vihang Errunza – Associate Dean, Research
Saibal Ray – Academic Director, Retail Initiative
Liette Lapointe – Associate Dean, Undergraduate Programs
Corey Phelps – Associate Dean, Executive Programs and Education
Steve Fortin – Associate Dean, Master's Programs
Mark Michaud – Director of Administration
Alexander King – Desautels Director of Advancement
Rita McAdam – Director of Marketing and Communications

Emeritus Professors

W. Crowston; B.S., B.A.Sc.(Tor.), S.M.(MIT), M.Sc., Ph.D.(Carn. Mell) – Management Science
D.H. Drury; B.Com., M.B.A.(McM.), Ph.D.(N'western), R.I.A.(S.I.A.) – Accounting
J-L. Goffin; Eng., M.S.(Brussels), M.Sc., Ph.D.(Calif.) – Operations Management
R. Hebdon; B.A., M.A., Ph.D.(Tor.) – General Management - Industrial Relations
R.N. Kanungo; B.A.(Patna), Ph.D.(McG.) – Organizational Behaviour
M.D. Lee; B.A.(Eckerdl), M.Ed.(Temple), M.A.(S. Florida), Ph.D.(Yale) – Organizational Behaviour
R.J. Loulou; M.Sc., Ph.D.(Calif.) – Operations Management
G.A. Whitmore; B.Sc.(Manit.), M.Sc., Ph.D.(Minn.) – Operations Management

Professors

N.J. Adler; B.A., M.B.A., Ph.D.(Calif.-LA) – Organizational Behaviour
R. Brenner; B.Sc., M.A., Ph.D.(Hebrew) – Managerial Economics (Repap Chair in Economics)
R. David; B.Eng., M.B.A.(McG.), Ph.D.(Cornell) – Strategy and Organization
L. Dubé; B.Sc.(Laval), M.B.A.(HEC), M.P.S., Ph.D.(Cornell) – Marketing (James McGill Professor)
V.R. Errunza; B.S., B.S.(Tech.)(Bom.), M.Sc., Ph.D.(Calif.) – Finance (Bank of Montreal Finance Chair)
S. Faraj; B.S.(Wisc.), M.S.(MIT), DBA – Strategy and Organization
S. Li; M.S.(Georgia), Ph.D.(Texas) – Management Science
S. Maguire; B.Sc.(Qu.), M.B.A.(Br. Col.) – Strategy and Organization
A.C. Masi; A.B.(Colgate), A.M., Ph.D.(Brown) – Organizational Behaviour
H. Mintzberg; B.Eng.(McG.), B.A.(Sir G. Wms.), S.M., Ph.D.(MIT) – Strategy and Organization (John Cleghorn Professor of Management Studies)
A. Pinsonneault; B.Com.(C'dia), M.Sc.(HEC), Ph.D.(Calif.) – Information Systems (James McGill Professor and IMASCO Chair in I.S.)
S. Ray; B.E.(Jad.), M.E.(Asian IT), Ph.D.(Wat.) – Operations Management
V. Verter; B.A., M.S.(Bogazici), Ph.D.(Bilkent) – Operations Management (Director CREATE Program and James McGill Professor)

Associate Professors

A. Animesh; B.Com.(Delhi), M.I.S.(Carn. Mell), Ph.D.(Md.) – Decision and Information Systems
L. Barras; B.Com., M.Sc, Ph.D.(Geneva) – Finance
G. Bassellier; B.Com., M.Sc.(HEC), Ph.D.(Br. Col.) – Information Systems
S. Bettermier; B.A.(Calif., Davis), M.S., Ph.D.(Calif., Berk.) – Finance
M. Bouvard; M.Sc.(HEC Paris), Ph.D.(Toulouse) – Finance
F. Carrieri; Laurea-Law(Univ. di Bari), M.A., Ph.D.(USC) – Finance
L. Cohen; B.A.(Kalamazoo), M.B.A.(Duke), Ph.D.(Calif., Berk.) – Organizational Behaviour
B. Croitoru; DIAF(Institut de Statistique, Univ. Pierre et Marie Curie), Ph.D.(Wharton) – Finance
Associate Professors

A. de Motta; B.A.(Univ. de Valencia), Ph.D.(MIT) – Finance
J. Ericsson; M.Sc., Ph.D.(Stockholm Sch. of Econ.) – Finance
H. Etemad; B.Sc., M.Eng.(Tehran), M.S., M.B.A., Ph.D.(Calif.) – International Business
D. Etzion; B.Sc.(Ben-Gurion), M.Sc.(Tel Aviv), Ph.D.(IESE Univ. of Navarra) – Strategy and Organization
S. Fortin; B.A.A.(UQAR), Ph.D.(Wat.) – Accounting
R. Goyenko; B.S.(Donetsk-Ukraine), M.A.(C.E.U., Budapest), M.S.(Siena), M.B.A., Ph.D.(Ind.) – Finance
M. Gumus; B.S.(Naval Academy), M.S., M.A., Ph.D.(Mich.) – Industrial Engineering and Operations Management
K. Han; B.S., M.S.(KAIST), Ph.D.(Minn.) – Information Systems
P. Hewlin; B.A.(Binghamton), M.B.A., Ph.D.(NYU) – Organizational Behaviour
A.M. Jaeger; B.Sc.(N’western), M.B.A., Ph.D.(Stan.) – Organizational Behaviour
M-S. Jo; B.Com.(Hankuk U.), M.B.A.(Mich.), M.S.(Ill.), Ph.D.(Colo.) – Marketing
J. Jørgensen; B.A., M.A.(N. Carolina, Chapel Hill), Ph.D.(McG.) – Strategy and Organization
L. Lapointe; B.A., M.Sc.(Montr.), Ph.D.(HEC) – Information Systems
Y. Ma; B.A.(Nankai), M.S.B.A., Ph.D.(Wash.) – Marketing
S. Mantere; M.Sc.(Eng.)(TKK), M.A.(Helsinki), Ph.D.(TKK) – Strategy and Organization/MDIIM
S. Mishra; B.A., M.A.(Delhi), M.B.A., Ph.D.(Ind.) – Marketing
A. Mukherjee; B.Eng.(Jadavpur), M.B.A.(Indian Inst. Manag.), Ph.D.(Texas-Austin) – Marketing
P. Perez-Aleman; B.Sc.(Calif., Berk.), Ph.D.(MIT) – Strategy and Organization
C. Phelps; B.A., M.B.A.(SDSU), M.A.(N.Y.), Ph.D.(NYU) – Strategy and Organization
J. Ramaprasad; B.S.(L.A. Marshall), Ph.D.(Calif., Irvine) – Information Systems
B. Rubineau; B.S., B.S.(MIT), M.S.(Harv.), Ph.D.(MIT) – Organizational Behaviour
E. Sarigöllü; B.A., M.B.A.(Bogazici), M.A., Ph.D.(Penn.) – Marketing
S. Sarkissian; M.S.(Calif., Berk.), Ph.D.(Wash.) – Finance
H. Tan; B.A.(Hubei), M.A.(Wuhan), Ph.D.(Qu.) – Accounting
O. Toulan; B.Sc.(G’town), Ph.D.(MIT) – Strategy and Organization
D. Tsang; B.Com., M.A.(Tor.), M.S., Ph.D.(Calif., Berk.) – Accounting
E. Vaast; M.A.(Sciences Po), M.A.(Dauphine), M.Sc.(Cachan), Ph.D.(Paris) – Information Systems
D. Vakratzas; B.Sc.(Aristotle U.), M.Sc., Ph.D.(Texas) – Marketing
M. Yalovsky; B.Sc., M.Sc., Ph.D.(McG.) – Operations Management

Assistant Professors

K. An; B.A.(Yonsei University), M.A.(Seoul), Ph.D. Candidate(Tor.) – Strategy and Organization
D. Andrei; B.Sc.(HEC Lausanne), M.Sc.(HEC Lausanne), Ph.D.(HEC Lausanne) – Finance
P. Augustin; B.Ec., M.Ec.(L. Pasteur), M.Sc.(Luxembourg), Ph.D.(Stockholm) – Finance
M. Banerjee; B.A.(Exe.), M.Phil.(Camb.), Ph.D.(Cornell) – Organizational Behaviour
D. Demetry; B.A.(Emory), M.A., Ph.D.(N’western) – Strategy and Organization
T. Dotzel; M.B.A.(Texas-Arlington), Ph.D.(Texas A & M) – Marketing
J.P. Ferguson; B.A.(Okla.), M.A.(Johns Hop.), Ph.D.(MIT) – Organizational Behaviour
S. Gagnon; B.A.(Br. Col.), M.Sc.(Oxf.), Ph.D.(Lanc.) – Organizational Behaviour
A. Georghiou; M.Sc., Ph.D.(Lond.) – Operations Management
A. Ghosh; B.Sc.(Presidency), M.Res., Ph.D.(LSE) – Finance
D.H. Han; B.B.A., M.S.(Seoul), Ph.D.(Indiana Univ. Bloomington) – Marketing
**Assistant Professors**

M. Hollister; B.A.(Haver.), M.C.P.(MIT), Ph.D.(Harv.) – *Organizational Behaviour*

H. Kim; B.A., M.S.(Seoul), Ph.D.(Ind.) – *Marketing*

J. Kondo; B.A.(Princ.), Ph.D.(MIT) – *Finance*

B. Kucukyazici; B.Sc.(Marmara), M.Sc.(Yeditepe), Ph.D.(McG.) – *Operations Management*

D. Lee; B.A.(Hanyang), M.Acc.(Hawaii), Ph.D.(Utah) – *Accounting*

Y. (M.) Lu; B.A.(Peking), M.A., M.Phil., Ph.D.(Yale) – *Marketing*

A. Malkhozov; B.Ec.(Strasb), M.Ec.(Paris), M.Sc., Ph.D.(Lond.) – *Marketing*

E. Obukhova; B.A.(Flor.), M.S.(N'Western), Ph.D.(Chic.) – *Strategy and Organization*

S. Oh; B.B.A., M.Sc.(Seoul), Ph.D.(USC) – *Accounting*

J. Pruijssers; B.A.(Econ.)(McG.), M.Sc.(Law & Acct.)(LSE), M.Phil., Ph.D.(RSM, Erasmus) – *Accounting*

W. Qi; B.Eng.(Zhejiang), M.S.(Calif.-LA), Ph.D.(Calif., Berk.) – *Operations Management*

J.-N. Reyt; B.A.(Paris X), M.Sc.(Fin. & Strategy)(Sciences Po), M.Sc.(Mgmt.)(ESSEC), Ph.D.(Paris Dauphine/Luxembourg) – *Organizational Behaviour*

G. Roussellet; B.Sc.(ENSAE), M.Sc.(Paris Sch. Econ.), Ph.D.(Dauphine) – *Finance*

J. Serpa; B.Sc.(Trent), M.A., Ph.D.(Bz. Col.) – *Operations Management*

B. Wenzel; B.Acy., M.Acy.(Missouri), Ph.D.(Ariz.) – *Accounting*

N. Yang; B.Sc.(Math.)(Alta.), M.A.(Econ.)(Tor.), Ph.D.(Tor.) – *Marketing*

J. Zhang; B.S.(Zhongnan), M.A.(Boston), M.Sc.(Chic.), Ph.D.(N'western) – *Accounting*

**CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members**

A. Abrams; B.Com.(McG.), G.D.P.A.(C'dia) – *Accounting*

N. Addy; B.A.(Swarth.), M.P.A.(Princ.), Ph.D.(Stan.) – *Strategy and Organization*

L. Breitner; B.A.(Wisc.), M.B.A. (Simmons), D.B.A.(Boston) – *Accounting and Health Management*

R. Cecere; B.Com., G.D.P.A.(Mcg.) – *Accounting*

M. Chaudhury; B.A., M.A.(Dhaka), M.A.(Wat.), Ph.D.(S. Fraser) – *Finance*

V. di Pietro; B.Eng.(McG.), M.M.F.(Tor.), Ph.D.(N’western) – *Finance*

R.G. Donovan; B.Com.(McG.), G.D.I.T.(C’dia) – *Information Systems*

K. Ganju; B.Sc.(Delhi), M.Sc.(LSE), Ph.D.(Temple) – *Health Management*

L.P. Gialloreto; B.A.(Ont.), M.B.A.(McG.), B.A. (Car.), LL.M.(McG.) – *Marketing*

L. Goldsman; B.Com.(C'dia), D.P.A.(McG.), CPA, CA – *Accounting*

L. Hammami; B.Com., B.M.A.(Laval) – *Finance*

L. Holmgren; B.A.(Ariz.), M.A., Ph.D.(McG.) – *General*

W. Khern-am-nuai; B.E.(Mongkut), M.B.A.(NIDA), M.S., Ph.D.(Purdue) – *Information Systems*

K. Lester; B.A.(C'dia), M.A.(Rhode Is.) – *Finance*

P. Levy; B.Com.(C'dia), D.P.A., M.B.A.(Mcg.) – *Accounting*

R. Mackalski; B.Sc.(Bran.), M.B.A., Ph.D.(Mcg.) – *Marketing*

S. Madan; B.S.(MIT), M.B.A. equivalent(Ahmadabad) – *Finance*

K. Moore; B.Sc.(Ambassador U.), M.B.A.(USC), Ph.D.(York) – *Marketing, Strategy and Organization*

I. Okhmatovskiy; B.A. equivalent(Moscow St.), M.S. equivalent(Academy of National Economy), Ph.D.(USC) – *Strategy*


T. Sidthidet; B.Sc.(Kasetsart), M.A.(Thammasat), M.A.(Wat.), Ph.D.(McG.) – *General*

B. Smith; B.A., M.A.(Dublin), M.Sc.(Alta.), Ph.D.(Qu.) – *Operations Management*
10 Faculty of Medicine

10.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

10.2 Graduate and Postdoctoral Studies

10.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
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</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
</tr>
</tbody>
</table>

10.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

10.2.3 Graduate and Postdoctoral Studies’ Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.
10.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

10.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

10.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

10.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

10.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

10.8 Postdoctoral Research

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

10.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).
10.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status

i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enroll as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.
x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:
   • to verify the Postdoc’s eligibility period for registration;
   • to provide Postdocs with departmental policy and procedures that pertain to them;
   • to oversee the registration and appointment of Postdocs;
   • to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
   • to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
   • to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
   • to include Postdocs in departmental career and placement opportunities;
   • to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:
   • to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
   • to provide research guidance;
   • to meet regularly with their Postdocs;
   • to provide feedback on research submitted by the Postdocs;
   • to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
   • to provide mentorship for career development;
   • to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
   • to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
   • to submit a complete file for registration to Enrolment Services;
   • to sign and adhere to their Letter of Agreement for Postdoctoral Education;
   • to communicate regularly with their supervisor;
   • to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:
   • to register Postdocs;
   • to provide an appeal mechanism in cases of conflict;
   • to provide documented policies and procedures to Postdocs;
   • to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

10.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

10.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs.
on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under "Leave Policies and Form."

10.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec's definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

10.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

10.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:
The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

10.11  Browse Academic Units & Programs

10.11.1  Anatomy and Cell Biology

10.11.1.1  Location

Department of Anatomy and Cell Biology
Strathcona Anatomy and Dentistry Building
3640 University Street, Room M/28
Montreal QC H3A 0C7
Canada
Telephone: 514-398-6350
Fax: 514-398-5047
Website: www.mcgill.ca/anatomy

10.11.1.2  About Anatomy and Cell Biology

The Department offers graduate programs leading to M.Sc. and Ph.D. degrees. Research in the Department investigates the dynamics and organization of molecules, organelles, cells, and tissues in several major systems of the body. The work makes fundamental contributions to a number of established and emerging multidisciplinary fields such as:

- cell and molecular biology;
- cellular immunology and hematology;
- reproductive biology;
- calcified tissue biology;
- tumour cell biology;
- developmental biology;
- neurobiology;
- aging.

The Department offers contemporary facilities for the wide range of techniques currently employed in research. Modern methods of cell and molecular biology, immunology, and biochemistry are used in conjunction with specialized microscopy in a variety of experimental systems.

The Department has one of the largest and best-equipped electron microscope facilities in the world. Currently in use are four modern electron microscopes which include a Tecnai F20 and a Titan Krios. Combined with some of these microscopes are computer-aided analytical equipment capable of elemental microanalysis, histomorphometry, reconstruction, and quantitation. The high-voltage microscope is particularly useful for certain analytical electron optical procedures such as electron diffraction, lattice imaging, and three-dimensional electron microscopy.

Funding

M.Sc. and Ph.D. students receive a minimum yearly stipend of $18,000 and $20,000 respectively. All students are financially supported either by their supervisor or through fellowships or scholarships. Prospective students are urged to make every effort to secure their own funding. Applications may be made for a variety of fellowships administered by the University or by various federal, provincial, or private agencies. For more information on fellowships and awards, see the Graduate and Postdoctoral Studies website.
Departmental Seminars
Nationally and internationally recognized scientists present their research findings to the Department at a regular seminar series throughout the academic year. On a regular basis, graduate students also present their own research progress and results to other students, postdoctoral fellows, and researchers in the Department through the Research in Progress Seminar Series.

section 10.11.1.5: Master of Science (M.Sc.) Cell Biology (Thesis) (45 credits)
Graduate research activities leading to the presentation of the M.Sc. Thesis involve original experimental work in one of the areas being actively investigated by the Department's research supervisors. Our graduate program offers training in a personal, unique, and multidisciplinary environment in the top Canadian university with worldwide recognition. The thesis-based Master's training is intended for students with a B.Sc. or B.A. degree in life sciences from a university of recognized reputation. Candidates with an M.D., D.D.S., or D.V.M. degree are also welcome. The students are trained in how to address biological problems with an integrative understanding of cell biology by conducting hypothesis-driven projects. The training provides all the tools required for a competitive career in academic settings as well as in industry or other fields.

section 10.11.1.6: Doctor of Philosophy (Ph.D.) Cell Biology
Graduate research activities leading to the presentation of the Ph.D. thesis involve original experimental work in one of the areas being actively investigated by the Department's research supervisors. Our graduate program offers training in a personal, unique, and multidisciplinary environment in the top Canadian university with worldwide recognition. The thesis-based Ph.D. training is intended for students with a B.Sc., B.A., or M.Sc. degree in life sciences from a university of recognized reputation. Candidates with an M.D., D.D.S., or D.V.M. degree are also welcome. The students are trained in how to address biological problems with an integrative understanding of cell biology by conducting hypothesis-driven projects. The training provides all the tools required for a competitive career, in academic settings as well as in industry or other fields.

10.11.1.3 Anatomy and Cell Biology Admission Requirements and Application Procedures
10.11.1.3.1 Admission Requirements
Admission is based on the candidate’s academic record and letters of recommendation. A minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 is required. Once a student has submitted all the required documents, the applicant’s file will be reviewed by the Graduate Admission Committee. Files that do not meet the minimum requirement will not be considered. Applicants must also be accepted by a research supervisor who is a faculty member or an associate member of the Department of Anatomy and Cell Biology (Adjunct members may serve only as co-supervisors while the primary supervisor must be a full or associate member of the Department). Recommendation for admission will be made once the applicant has secured a supervisor and adequate financial support. Financial support should be in the form of a stipend from the supervisor's research grant or a fellowship held by the student.

Master’s Program (Cell Biology)
1. A B.Sc. degree in life sciences or any of M.D., D.D.S., or D.V.M. degrees from a university of recognized reputation
2. Evidence of a high academic achievement with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 as indicated in the general guidelines set up by GPS

Ph.D. Program (Cell Biology)
1. An M.Sc. degree in life sciences or any of M.D., D.D.S., or D.V.M. degrees from a university of recognized reputation
2. Evidence of a high academic achievement with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 as indicated in the general guidelines set up by GPS

International Applicants
Graduate studies applicants whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction, or from a recognized Canadian institution (anglophone or francophone), must submit the following: TOEFL: Minimum score of 86 on the Internet-based test (iBT; 567 on the paper-based test (PBT)) with each component score 20 or higher.

or
IELTS: Minimum overall band score of 6.5.

10.11.1.3.2 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.
See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures. Further details from the department can be found under the “Applying” tab at www.mcgill.ca/anatomy/graduate-mscphd.
All applicants are advised to contact potential research supervisors before the application process since supervisor acceptance is required. Information about the research interests of faculty members can be found in our Departmental Directory.
Program guidelines are listed under the "Master's" and "Doctorate" tabs at www.mcgill.ca/anatomy/graduate-mscphd.

10.11.1.3.2.1 Additional Requirements
The items and clarifications below are additional requirements set by this department:

- Agreement of a faculty member to act as Thesis Supervisor and to provide adequate financial support
10.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Anatomy and Cell Biology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>All Applicants</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
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<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
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<tr>
<td>Summer Term:</td>
<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.4 Anatomy and Cell Biology Faculty

**Chair**
Craig Mandato

**Emeritus Professors**
Gary C. Bennett; B.A., B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)
John J.M. Bergeron; B.Sc.(McG.), D.Phil.(Oxf.)
James R. Brawer; B.Sc.(Tufts), Ph.D.(Harv.)
Louis Hermo; B.A.(Loyola), M.Sc., Ph.D.(McG.)
Sandra C. Miller; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)
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.
Hershey Warshawsky; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

**Professors**
Chantal Autexier; B.Sc.(C'dia), Ph.D.(McG.)
Khanh Huy Bui; M.Sc.(Chalmers Univ. of Tech.), Ph.D.(ETH Zürich)
Samuel David; Ph.D.(Manit.) (joint appt. with Neurology and Neurosurgery)
Timothy Kennedy; B.Sc.(McM.), M.Phil., Ph.D.(Col.) (joint appt. with Neurology and 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)
Carlos R. Morales; D.V.M.(U.N., Argentina), Ph.D.(McG.)
Joaquin Ortega; B.Sc.(Zaragoza), Ph.D.(Autonoma, Madrid)
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 and Neurosurgery)
Stefano Stifani; Ph.D.(Rome), Ph.D.(Alta.) (joint appt. with Neurology and Neurosurgery)
Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich)
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.)

Craig Mandato; B.Sc., Ph.D.(Wat.)

Geoffroy P. Noel; Ph.D.(Br. Col.)

John F. Presley; B.A., Ph.D.(Texas)

Isabelle Rouiller; Ph.D.(Hertfordshire)

### Assistant Professors

Susanne Bechstedt; B.Sc.(Flor. St.), M.Sc.(Friedrich Schiller Univ.), Ph.D.(Max Planck)

Javier Vargas; Ph.D.(UCM, Spain)

Gabriel Venne; Ph.D.(Qu.)

Nicole Ventura; Ph.D.(Qu.)

### Associate Members

Daniel Bernard *(Pharmacology and Therapeutics)*

Claire Brown *(Physiology)*

Colin Chalk *(Neurology and Neurosurgery)*

Jean-François Cloutier *(Neurology and Neurosurgery)*

Claudio Cuello *(Pharmacology and Therapeutics)*

Giovanni DiBattista *(Medicine)*

Allen Ehrlicher *(Bioengineering)*

Alyson Fournier *(Neurology and Neurosurgery)*

Lisbet Haglund *(Surgery)*

Janet Henderson *(Medicine)*

Loydie A. Jerome-Majewska *(Pediatrics and Human Genetics)*

Svetlana Komarova *(Dentistry)*

Stephane Laporte *(Medicine)*

Andréa Leblanc *(Neurology and Neurosurgery)*

Stéphanie Lehoux *(Medicine)*

Heidi McBride *(Montreal Neurological Institute)*

Peter Metrakos *(Surgery)*

Makato Nagano *(Obstetrics and Gynecology)*

Tommy Nilsson *(Medicine)*

Christian Rocheleau *(Endocrinology and Metabolism)*

Edward S. Ruthazer *(Neurology and Neurosurgery)*

Peter Siegel *(Medicine and Biochemistry)*

Charles E. Smith; D.D.S., Ph.D.(McG.)

Thomas Stroh *(Neurology and Neurosurgery)*

Jason Tanny *(Pharmacology and Therapeutics)*

### Adjunct Professors

Gregor Andelfinger; M.D.(Ulm)

Philippe Campeau; M.D.(Laval)
Adjunct Professors

Michel Cayouette; Ph.D.(Laval)
Frédéric Charron; B.Sc.(Montr.), Ph.D.(McG.)
Jean-François Côté; Ph.D.(McG.)
Daniel Cyr; B.Sc., M.Sc.(C’dia), Ph.D.(Manit.)
Jacques Drouin; B.Sc., D.Sc.(Laval)
Jennifer Estall; Ph.D.(Tor.)
Patrick Freud; B.Sc., D.C.(Parker)
Michael Greenwood; B.Sc., M.Sc.(C’dia), Ph.D.(McG.)
David Hipfner; B.Sc., Ph.D.(Qu.)
Artur Kania; Ph.D.(Baylor)
Justin Kollman; Ph.D.(Calif.-San Diego)
Stephane Lefrancois; B.Sc., Ph.D.(McG.)
Alexei Pshezhetsky; Ph.D.(Moscow St.)
Michael Sacher; Ph.D.(McG.)
Elitza Tocheva; B.Sc., Ph.D.(Br. Col.)

10.11.1.5 Master of Science (M.Sc.) Cell Biology (Thesis) (45 credits)

Thesis Course (24 credits)

ANAT 698 (24) M.Sc. Thesis Research 1

Required Course (12 credits)

ANAT 601 (3) MSc Seminar Examination
ANAT 695 (3) Seminars in Cell Biology 1
ANAT 696 (3) Seminars in Cell Biology 2
ANAT 697 (3) Seminars in Cell Biology 3

Complementary Courses (9 credits)

6 credits from one of two streams: Cell Developmental Biology Stream or Human Systems Biology Stream

Cell Developmental Biology Stream

ANAT 663D1 (3) Histology
ANAT 663D2 (3) Histology
ANAT 690D1 (3) Cell and Developmental Biology
ANAT 690D2 (3) Cell and Developmental Biology

Human Systems Biology Stream

** This stream is currently under review. **

6 credits required:

ANAT 690D1 (3) Cell and Developmental Biology
ANAT 690D2 (3) Cell and Developmental Biology
3 credits selected from:

- **BMDE 502** (3) BME Modelling and Identification
- **BMDE 519** (3) Biomedical Signals and Systems
- **BTEC 501** (3) Bioinformatics
- **COMP 564** (3) Advanced Computational Biology Methods and Research
- **COMP 680** (4) Mining Biological Sequences
- **EXMD 602** (3) Techniques in Molecular Genetics
- **MIMM 613** (3) Current Topics 1
- **MIMM 614** (3) Current Topics 2
- **MIMM 615** (3) Current Topics 3
- **NEUR 502** (3) Basic and Clinical Aspects of Neuroimmunology

Upon consultation with the supervisor, students may select a 3-credit course outside of this list from Biomedical Science courses at the 500-600 level.

10.11.1.6 Doctor of Philosophy (Ph.D.) Cell Biology

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

- **ANAT 690D1** (3) Cell and Developmental Biology
- **ANAT 690D2** (3) Cell and Developmental Biology
- **ANAT 695** (3) Seminars in Cell Biology 1
- **ANAT 696** (3) Seminars in Cell Biology 2
- **ANAT 697** (3) Seminars in Cell Biology 3
- **ANAT 701** (0) Ph.D. Comprehensive Examination

10.11.2 Biochemistry

10.11.2.1 Location

Department of Biochemistry
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Canada
Christine Laberge: Student Affairs Officer/Graduate Program Coordinator
Telephone: 514-398-2423
Fax: 514-398-7384
Email: christine.laberge@mcgill.ca
Website: www.mcgill.ca/biochemistry

10.11.2.2 About Biochemistry

The Department of Biochemistry offers M.Sc. and Ph.D. programs, which emphasize laboratory research. Our research interests include:

- molecular and cell biology;
- the regulation of gene and protein expression;
Specialized graduate training programs in Chemical Biology, Human Systems Biology (Bioinformatics), Cancer Research/Oncology, and Structural Biology are available. Laboratories are located in the new Bellini Life Sciences Building and Goodman Cancer Research Centre, and the renovated McIntyre Medical Sciences Building, together comprising one of the best-equipped research facilities in Canada. The outstanding quality of our research has been recognized by recent awards including a Gairdner Award, two Killam Prizes, and eight Canada Research Chairs.

Funding
Master's students receive a minimum stipend of $20,000 annually; doctoral students receive $22,000. The Department is committed to helping graduate students secure adequate funding for their research. All students are financially supported either by their supervisor or through fellowships or scholarships. Prospective students are urged to make every effort to secure their own funding. Applications may be made for a variety of fellowships administered by the University or by various federal, provincial, or private agencies. For more information on fellowships and awards, see the Graduate and Postdoctoral Studies website.

Departmental Seminars
Visiting scientists and senior doctoral students present their research findings to the Department at a regular seminar series throughout the academic year. All graduate students are required to attend the regular seminars and additional special lectures, and are encouraged to attend scientific conferences and symposia.

**section 10.11.2.5: Master of Science (M.Sc.) Biochemistry (Thesis) (45 credits)**

The M.Sc. in Biochemistry introduces students to laboratory-based research at an advanced level. The M.Sc. program offers core courses in advanced biochemistry topics, but focuses on laboratory research. The program provides sophisticated training in the technical as well as theoretical aspects of biochemistry, at one of the leading Biochemistry departments in Canada. The M.Sc. program is an excellent preparation for skilled positions in the biomedical sciences, in industry or the public sector, or for superior research in a Ph.D. program.

**section 10.11.2.6: Master of Science (M.Sc.) Biochemistry (Thesis): Bioinformatics (45 credits)**

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

M.Sc. level – Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field.

The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

**section 10.11.2.7: Master of Science (M.Sc.) Biochemistry (Thesis): Chemical Biology (47 credits)**

The Chemical Biology Thematic Group is engaged in a diverse range of research topics, which span structural biology, enzymology, nucleic acid research, signalling pathways, single molecule biophysics, and biophysical chemistry of living tissues. Among the themes that unite the research being performed in this group is the attempt to learn new chemistry and physics from biological systems. We have projects relating to pharmaceutically relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer, and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

The Chemical Biology graduate option is centred on the pursuit of an original research project under the direction of one or more mentors. The program is supported by McGill University and by the Canadian Institutes of Health Research (CIHR) through its Strategic Training Initiatives program.

The program of training incorporates several important features, including a diverse curriculum and programs of seminars, workshops, and discussion groups designed to provide students with a well-rounded exposure to both the chemical and biological aspects of the discipline. The M.Sc. option provides a foundation in the concepts and approaches of Chemical Biology.
section 10.11.2.8: Doctor of Philosophy (Ph.D.) Biochemistry

The Ph.D. in Biochemistry trains students in laboratory-based research at the highest level. The Ph.D. program is streamlined to emphasize independent research, and the many areas of biochemistry studied in our Department offer a wide choice of specialties. Students gain in-depth expertise in biochemistry and the biomedical sciences, with the opportunity to carry out research projects at a world-class level and build collaborations with other leading research groups.

Graduates of the Ph.D. program are outstandingly prepared for leadership careers in the basic health sciences in industry, the public sector, or academia.

section 10.11.2.9: Doctor of Philosophy (Ph.D.) Biochemistry: Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

Ph.D. level – Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field, and have the capability of developing an independent Bioinformatics research program.

The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

section 10.11.2.10: Doctor of Philosophy (Ph.D.) Biochemistry: Chemical Biology

The Chemical Biology Thematic Group is engaged in a diverse range of research topics which span structural biology, enzymology, nucleic acid research, signalling pathways, single molecule biophysics, and biophysical chemistry of living tissues. Among the themes which unite the research being performed in this group is trying to learn new chemistry and physics from biological systems. We have projects relating to pharmacistally relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

The Chemical Biology graduate option is centred on the pursuit of an original research project under the direction of one or more mentors. The program is supported by McGill University and by the Canadian Institutes of Health Research (CIHR) through its Strategic Training Initiatives program.

The program of training incorporates several important features, including a diverse curriculum and programs of seminars, workshops, and discussion groups designed to provide students with a well-rounded exposure to both the chemical and biological aspects of the discipline. The Ph.D. option provides advanced training in Chemical Biology based on independent research.

Financial support for students in the program is available from a variety of sources, including competitively awarded CIHR-funded Chemical Biology Scholarship awards.

10.11.2.3 Biochemistry Admission Requirements and Application Procedures

10.11.2.3.1 Admission Requirements

Admission is based on the candidate’s academic record, letters of recommendation, curriculum vitae, and personal statement. A minimum grade point average of 3.2/4.0 (B+) is required. Once a student has submitted all the required documents, the applicant’s file will be reviewed by the Graduate Admission Committee. Files that do not meet the minimum requirement will not be considered. Applicants must also be accepted by a research supervisor who is a faculty member or associate member of the Department of Biochemistry. Recommendation for admission will be made once the applicant has secured a supervisor and adequate financial support. Financial support should be in the form of a stipend from the supervisor's research grant or a fellowship held by the student.

Master's Program

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent in Biochemistry or in related disciplines (e.g., biology, chemistry, physiology, microbiology).

Doctoral Program

Candidates who have completed their M.Sc. degree may be admitted directly to the Ph.D. program. Candidates who are admitted to the M.Sc. program and who are interested in the Ph.D. may transfer into the Ph.D. program after successfully completing the transfer seminar (BIOC 701) and all course requirements. The M.Sc. thesis requirement is then waived.

International Applicants

Applicants to graduate studies whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit the following:

- TOEFL (Test of English as a Foreign Language): Minimum acceptable scores are 86 Internet-based test (iBT) with no less than 20 in each of the four component scores or 567 on the paper-based test (PBT). CBT results will no longer be accepted, as ETS no longer reports these results.
IELTS: Minimum overall band score of 6.5 or greater.

International students who have received their degree outside North America should submit GRE scores: The GRE is not required, but recommended for international students. The Biochemistry subject test is now part of the Biology test. The most important sub-score is "Cellular and Molecular Biology”, followed by “Evolution”; “Organismal Biology and Ecology” is less important.

Admission Requirements – Bioinformatics or Chemical Biology Option

As for the regular graduate programs of the Biochemistry Department, acceptance into the Bioinformatics or Chemical Biology option consists of two steps:

1. Preliminary approval by the Department's Graduate Admission Committee based on the student's transcript, references, and other documents submitted with the application. The criteria for assessment at this level are the same as for the regular graduate programs of the Department.

2. Acceptance by a Bioinformatics or Chemical Biology research director. The director must propose a research project for the student that provides training in the methods and philosophy of Chemical Biology. Project proposals are assessed by the Bioinformatics or Chemical Biology Program Committee.

10.11.23.2 Application Procedures


All applicants are advised to contact potential research supervisors during or before the application process since supervisor acceptance is required. Information about the research interests of faculty members can be found at [www.mcgill.ca/biochemistry/research](http://www.mcgill.ca/biochemistry/research) and [www.mcgill.ca/biochemistry/about-us/department/faculty-members](http://www.mcgill.ca/biochemistry/about-us/department/faculty-members).

10.11.23.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Personal Statement
- Agreement of a faculty member to act as Thesis Supervisor and to provide adequate financial support
- Acceptance by a Bioinformatics or Chemical Biology research director

10.11.23.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Biochemistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.2.4 Biochemistry Faculty

Chair

Albert Berghuis

Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (Gilman Cheney Professor of Biochemistry)

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.(Cornell)

Edward A. Meighen; B.Sc.(Alta.), Ph.D.(Calif., Berk.)
### Emeritus Professors
- Walter E. Mushynski; B.Sc., Ph.D.(McG.)
- Gordon C. Shore; B.Sc.(Guelph), Ph.D.(McG.)
- Clifford P. Stanners; B.Sc.(McM.), M.A., Ph.D.(Tor.)
- Maria Zannis-Hadjopoulos; B.Sc., M.Sc., Ph.D.(McG.) *(joint appt. with Oncology and Medicine)*
- John R. Silvius; B.Sc., Ph.D.(Alta.)

### 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.)
- Maxime Bouchard; B.Sc., Ph.D.(Laval)
- Imed Gallouzi; Maitrise, D.E.A., Ph.D.(Montpellier, France)
- 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)*
- Alba Guarné; B.Sc., M.Sc., Ph.D.(Barcelona)
- Roderick R. McInnes; B.Sc., M.D.(Dal.), Ph.D.(McG.)
- 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.(Glas.), F.R.S.C. *(Diane and Sal Guerrera Chair in Cancer Genetics) (James McGill Professor) *(joint appt. with Oncology and Medicine)*
- Arnim Pause; B.Sc., M.Sc.(Konstanz), Ph.D.(McG.)
- Jerry Pelletier; B.Sc., Ph.D.(McG.)* (James McGill Professor)*
- Nahum Sonenberg; M.Sc., Ph.D.(Weizmann Inst.), F.R.S.C., F.R.S. *(James McGill Professor) *(Gilman Cheney Chair in Biochemistry)*
- David Y. Thomas; B.Sc.(Brist.), M.Sc., Ph.D.(Univ. College, 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. *(Jeanne and Jean-Louis Levesque Chair in Cancer Research)*

### Associate Professors
- José Dostie; B.Sc.(Sher.), Ph.D.(McG.)* (CHIR New Investigators Award; Chercheur-boursière du FRSQ)*
- Thomas Duchaine; B.Sc., Ph.D.(Montr.)* (Chercheur-boursier du FRSQ)*
- Bhushan Nagar; B.Sc., Ph.D.(Tor.)*
- Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale) *(Canada Research Chair in Macromolecular Machines)*
- Jose G. Teodoro; B.Sc.(W. Ont.), Ph.D.(McG.) *(CHIR New Investigators Award; Chercheur-boursier du FRSQ)*
- Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.)*

### Assistant Professors
- Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)
- Maxime Denis; B.Sc., Ph.D.(Montr.)*
- Sidong Huang; B.A.(Boston), Ph.D.(Calif.)* (Canada Research Chair in Functional Genomics)*
- Lawrence Kazak; Ph.D.(Camb.)*
- William Pastor; Ph.D.(Harv.)*
- Ian Watson; B.Sc., Ph.D.(Tor.)* (Canada Research Chair in Functional Genomics of Melanoma)*

### Associate Members
- Gary Brouhard *(Dept. of Biology)*
- Robert S. Kiss *(Dept. of Medicine)*
Associate Members

- Gergely Lukacs (Dept. of Physiology)
- Janusz Rak (Dept. of Medicine)
- Stéphane Richard (Depts. of Medicine and Oncology)
- Selena M. Sagan (Dept. of Microbiology & Immunology)
- Reza Salavati (Inst. of Parasitology)
- Maya Saleh (Dept. of Medicine)
- Erwin Schurr (Ctr. for Host Resistance, MGH)
- Peter Siegel (Goodman Cancer Ctr., Dept. of Medicine)
- Ivan Topisirovic (Dept. of Oncology)
- Youla S. Tsantrizos (Dept. of Chemistry)
- Bernard Turcotte (Dept. of Medicine)
- Josie Ursini-Siegel (Dept. of Oncology)
- Simon Wing (Dept. of Medicine)
- Xiang-Jiao Yang (Goodman Cancer Ctr., Dept. of Medicine)

Adjunct Professors

- Mirek Cygler (Sask.)
- Jacques Drouin (IRCM)
- Matthias Götte (Alta.)
- Michael Hallett (C'dia, Dept. of Biology)
- Enrico Purisima (NRC/BRI)
- Julie St-Pierre (Ott.)

10.11.2.5 Master of Science (M.Sc.) Biochemistry (Thesis) (45 credits)

Thesis Courses (36 credits)

- BIOC 697 (9) Thesis Research 1
- BIOC 698 (12) Thesis Research 2
- BIOC 699 (15) Thesis Research 3

Required Course (3 credits)

- BIOC 696 (3) Seminars in Biochemistry

Complementary Courses* (6 credits)

At least 3 credits must be chosen from the following:

- BIOC 600 (3) Advanced Strategies in Genetics and Genomics
- BIOC 603 (3) Genomics and Gene Expression
- BIOC 604 (3) Macromolecular Structure
- BIOC 605 (3) Protein Biology and Proteomics
- BIOC 670 (3) Biochemistry of Lipoproteins
- EXMD 615 (3) Essentials of Glycobiology
- EXMD 635D1 (3) Experimental/Clinical Oncology
EXMD 635D2  (3)  Experimental/Clinical Oncology

Plus additional credits, to a minimum of 6 total complementary course credits, of 500- or higher-level courses in biomedical and allied sciences.

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

10.11.2.6 Master of Science (M.Sc.) Biochemistry (Thesis): Bioinformatics (45 credits)

Thesis Courses (30 credits)

- BIOC 694  (3)  Thesis Research 4
- BIOC 698  (12)  Thesis Research 2
- BIOC 699  (15)  Thesis Research 3

Required Courses (6 credits)

- BIOC 696  (3)  Seminars in Biochemistry
- COMP 616D1  (1.5)  Bioinformatics Seminar
- COMP 616D2  (1.5)  Bioinformatics Seminar

Complementary Courses* (9 credits)

3 credits to be chosen from the following courses:

- BIOC 600  (3)  Advanced Strategies in Genetics and Genomics
- BIOC 603  (3)  Genomics and Gene Expression
- BIOC 604  (3)  Macromolecular Structure
- BIOC 605  (3)  Protein Biology and Proteomics
- BIOC 670  (3)  Biochemistry of Lipoproteins
- EXMD 615  (3)  Essentials of Glycobiology
- EXMD 635D1  (3)  Experimental/Clinical Oncology
- EXMD 635D2  (3)  Experimental/Clinical Oncology

Plus 6 credits from the following courses:

- BINF 621  (3)  Bioinformatics: Molecular Biology
- BMDE 652  (3)  Bioinformatics: Proteomics
- BTEC 555  (3)  Structural Bioinformatics
- COMP 618  (3)  Bioinformatics: Functional Genomics
- PHGY 603  (3)  Systems Biology and Biophysics

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.
10.11.2.7 Master of Science (M.Sc.) Biochemistry (Thesis): Chemical Biology (47 credits)

Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>BIOC 695</td>
<td>6</td>
<td>Thesis Research 1 (Chemical - Biology)</td>
</tr>
<tr>
<td>BIOC 698</td>
<td>12</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>BIOC 699</td>
<td>15</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

Required Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 696</td>
<td>3</td>
<td>Seminars in Biochemistry</td>
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</table>

Complementary Courses* (11 credits)

Two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BIOC 610</td>
<td>1</td>
<td>Seminars in Chemical Biology 1</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>1</td>
<td>Seminars in Chemical Biology 3</td>
</tr>
<tr>
<td>BIOC 689</td>
<td>1</td>
<td>Seminars in Chemical Biology 2</td>
</tr>
<tr>
<td>BIOC 690</td>
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<td>Seminars in Chemical Biology 4</td>
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At least 3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 502</td>
<td>3</td>
<td>Advanced Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 503</td>
<td>3</td>
<td>Drug Discovery</td>
</tr>
<tr>
<td>PHAR 503</td>
<td>3</td>
<td>Drug Discovery and Development 1</td>
</tr>
</tbody>
</table>

and at least 3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 600</td>
<td>3</td>
<td>Advanced Strategies in Genetics and Genomics</td>
</tr>
<tr>
<td>BIOC 603</td>
<td>3</td>
<td>Genomics and Gene Expression</td>
</tr>
<tr>
<td>BIOC 604</td>
<td>3</td>
<td>Macromolecular Structure</td>
</tr>
<tr>
<td>BIOC 605</td>
<td>3</td>
<td>Protein Biology and Proteomics</td>
</tr>
<tr>
<td>BIOC 670</td>
<td>3</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<tr>
<td>EXMD 615</td>
<td>3</td>
<td>Essentials of Glycobiology</td>
</tr>
<tr>
<td>EXMD 635D1</td>
<td>3</td>
<td>Experimental/Clinical Oncology</td>
</tr>
<tr>
<td>EXMD 635D2</td>
<td>3</td>
<td>Experimental/Clinical Oncology</td>
</tr>
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Plus additional credits, to a total of at least 11 complementary course credits from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 504</td>
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<td>Drug Design</td>
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<tr>
<td>CHEM 522</td>
<td>3</td>
<td>Stereochemistry</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>3</td>
<td>Supramolecular Chemistry</td>
</tr>
<tr>
<td>CHEM 591</td>
<td>3</td>
<td>Bioinorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>5</td>
<td>Reaction Mechanisms in Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 629</td>
<td>5</td>
<td>Organic Synthesis</td>
</tr>
<tr>
<td>CHEM 655</td>
<td>4</td>
<td>Advanced NMR Spectroscopy</td>
</tr>
<tr>
<td>EXMD 510</td>
<td>3</td>
<td>Bioanalytical Separation Methods</td>
</tr>
</tbody>
</table>
Techniques in Molecular Genetics (3) EXMD 602
Drug Discovery and Development 2 (3) PHAR 504
Neuropharmacology (3) PHAR 562
Endocrine Pharmacology (3) PHAR 563
Topics in Pharmacology 6 (3) PHAR 707

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

10.11.2.8 Doctor of Philosophy (Ph.D.) Biochemistry

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOC 696*</td>
<td>3</td>
<td>Seminars in Biochemistry</td>
</tr>
<tr>
<td>BIOC 701**</td>
<td>0</td>
<td>Research Seminar 1</td>
</tr>
<tr>
<td>BIOC 702**</td>
<td>0</td>
<td>Ph.D. Thesis Proposal</td>
</tr>
<tr>
<td>BIOC 703**</td>
<td>0</td>
<td>Research Seminar 2</td>
</tr>
</tbody>
</table>

* Students promoted directly from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level.

** NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 in the third term after admission to the program, BIOC 702 in the fifth or sixth term, and BIOC 703 approximately six months prior to submission of the Ph.D. thesis.

Complementary Courses*** (6 credits)

At least 3 credits selected from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 600</td>
<td>3</td>
<td>Advanced Strategies in Genetics and Genomics</td>
</tr>
<tr>
<td>BIOC 603</td>
<td>3</td>
<td>Genomics and Gene Expression</td>
</tr>
<tr>
<td>BIOC 604</td>
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<td>3</td>
<td>Biochemistry of Lipoproteins</td>
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<td>EXMD 615</td>
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</tr>
<tr>
<td>EXMD 635D1</td>
<td>3</td>
<td>Experimental/Clinical Oncology</td>
</tr>
<tr>
<td>EXMD 635D2</td>
<td>3</td>
<td>Experimental/Clinical Oncology</td>
</tr>
</tbody>
</table>

Plus additional credits to a minimum of 6 total complementary course credits of 500- or higher-level courses in the biomedical and allied sciences.

*** Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional course work depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.
10.11.2.9 Doctor of Philosophy (Ph.D.) Biochemistry: Bioinformatics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>BIOC 696*</td>
<td>(3)</td>
<td>Seminars in Biochemistry</td>
</tr>
<tr>
<td>BIOC 701**</td>
<td>(0)</td>
<td>Research Seminar 1</td>
</tr>
<tr>
<td>BIOC 702**</td>
<td>(0)</td>
<td>Ph.D. Thesis Proposal</td>
</tr>
<tr>
<td>BIOC 703**</td>
<td>(0)</td>
<td>Research Seminar 2</td>
</tr>
<tr>
<td>COMP 616D1</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
</tbody>
</table>

* Students promoted directly from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level.

** NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 in the third term after admission to the program, BIOC 702 in the fifth or sixth term, and BIOC 703 approximately six months prior to submission of the Ph.D. thesis.

Complementary Courses*** (9 credits)

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 600</td>
<td>(3)</td>
<td>Advanced Strategies in Genetics and Genomics</td>
</tr>
<tr>
<td>BIOC 603</td>
<td>(3)</td>
<td>Genomics and Gene Expression</td>
</tr>
<tr>
<td>BIOC 604</td>
<td>(3)</td>
<td>Macromolecular Structure</td>
</tr>
<tr>
<td>BIOC 605</td>
<td>(3)</td>
<td>Protein Biology and Proteomics</td>
</tr>
<tr>
<td>BIOC 670</td>
<td>(3)</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<tr>
<td>EXMD 615</td>
<td>(3)</td>
<td>Essentials of Glycobiology</td>
</tr>
<tr>
<td>EXMD 635D1</td>
<td>(3)</td>
<td>Experimental/Clinical Oncology</td>
</tr>
<tr>
<td>EXMD 635D2</td>
<td>(3)</td>
<td>Experimental/Clinical Oncology</td>
</tr>
</tbody>
</table>

Plus 6 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

*** Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.
10.11.2.10 Doctor of Philosophy (Ph.D.) Biochemistry: Chemical Biology

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (7 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 610</td>
<td>(1)</td>
<td>Seminars in Chemical Biology 1</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>(1)</td>
<td>Seminars in Chemical Biology 3</td>
</tr>
<tr>
<td>BIOC 689</td>
<td>(1)</td>
<td>Seminars in Chemical Biology 2</td>
</tr>
<tr>
<td>BIOC 690</td>
<td>(1)</td>
<td>Seminars in Chemical Biology 4</td>
</tr>
<tr>
<td>BIOC 696*</td>
<td>(3)</td>
<td>Seminars in Biochemistry</td>
</tr>
<tr>
<td>BIOC 701**</td>
<td>(0)</td>
<td>Research Seminar 1</td>
</tr>
<tr>
<td>BIOC 702**</td>
<td>(0)</td>
<td>Ph.D. Thesis Proposal</td>
</tr>
<tr>
<td>BIOC 703**</td>
<td>(0)</td>
<td>Research Seminar 2</td>
</tr>
</tbody>
</table>

* Students promoted directly from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level.

** ** NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 in the third term after admission to the program, BIOC 702 in the fifth or sixth term, and BIOC 703 approximately six months prior to submission of the Ph.D. thesis.

**Complementary Courses*** (9 credits)

At least 3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 502</td>
<td>(3)</td>
<td>Advanced Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 503</td>
<td>(3)</td>
<td>Drug Discovery</td>
</tr>
<tr>
<td>PHAR 503</td>
<td>(3)</td>
<td>Drug Discovery and Development 1</td>
</tr>
</tbody>
</table>

At least 3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(3)</td>
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</tr>
<tr>
<td>BIOC 603</td>
<td>(3)</td>
<td>Genomics and Gene Expression</td>
</tr>
<tr>
<td>BIOC 604</td>
<td>(3)</td>
<td>Macromolecular Structure</td>
</tr>
<tr>
<td>BIOC 605</td>
<td>(3)</td>
<td>Protein Biology and Proteomics</td>
</tr>
<tr>
<td>BIOC 670</td>
<td>(3)</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<tr>
<td>EXMD 615</td>
<td>(3)</td>
<td>Essentials of Glycobiology</td>
</tr>
<tr>
<td>EXMD 635D1</td>
<td>(3)</td>
<td>Experimental/Clinical Oncology</td>
</tr>
<tr>
<td>EXMD 635D2</td>
<td>(3)</td>
<td>Experimental/Clinical Oncology</td>
</tr>
</tbody>
</table>

Plus additional credits to a total of at least 9 complementary course credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 504</td>
<td>(3)</td>
<td>Drug Design</td>
</tr>
<tr>
<td>CHEM 522</td>
<td>(3)</td>
<td>Stereochemistry</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>(3)</td>
<td>Supramolecular Chemistry</td>
</tr>
</tbody>
</table>
**10.11.3  Bioethics**

**10.11.3.1 Location**

Biomedical Ethics Unit  
3647 Peel Street  
Montreal QC H3A 1X1  
Canada  
Telephone: 514-398-6668  
Fax: 514-398-8349  
Website: [www.mcgill.ca/biomedicalethicsunit/teaching/masters](http://www.mcgill.ca/biomedicalethicsunit/teaching/masters)

For information, contact the Graduate Program Director:

Jennifer Fishman – [jennifer.fishman@mcgill.ca](mailto:jennifer.fishman@mcgill.ca)

**10.11.3.2 About Bioethics**

The Biomedical Ethics Unit was established in 1996 with the aim of supporting scholarly research, clinical services, teaching, and public outreach. Members of the unit have backgrounds in law, sociology, molecular genetics, history, medicine, and philosophy. We offer a master's degree specialization in biomedical ethics for selected master's students in the Division of Experimental Medicine, the Department of Family Medicine, Department of Human Genetics, Department of Philosophy, School of Religious Studies, and Faculty of Law.

**Master's Specialization in Bioethics**

The Master's Specialization in Bioethics is sponsored by the:

- Faculty of Medicine, Division of Experimental Medicine, Department of Human Genetics, Department of Family Medicine;
- Faculty of Law; and
- Faculty of Arts, Department of Philosophy, School of Religious Studies.

Students receive an M.A., LL.M., or M.Sc. degree in the discipline chosen with a specialization in Bioethics.

Some applicants are mid-career professionals currently working as physicians, nurses, social workers, other health care providers, or lawyers. Other applicants have recently completed their undergraduate degrees in science, philosophy, law, religious studies, or other disciplines, and wish to pursue specialized master's level training in bioethics before enrolling in doctoral level studies or entering the workplace.

Students pursuing the master's degree specialization normally take two semesters of courses before beginning their master's thesis. Courses offered include Bioethics Theory, Public Health Ethics and Policy, Research Ethics, and a Practicum that includes placement in a clinical or research setting. Research and writing the thesis normally takes one year. Students must also comply with the course and thesis requirements of their home disciplines.
10.11.3.3 Bioethics Admission Requirements and Application Procedures

10.11.3.3.1 Admission Requirements

M.D., professional training in a health science, or bachelor's degree in the sciences, social sciences, law, philosophy, or religious studies. Other students may be considered on an individual basis.

Enrolment is limited to 12 students.

10.11.3.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See *University Regulations and Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures* for detailed application procedures.

Applications for the Master’s Specialization in Bioethics are made initially through the Faculties of Law, Medicine (Division of Experimental Medicine, Department of Human Genetics, Department of Family Medicine), and Arts (Department of Philosophy, School of Religious Studies).

Applicants must satisfy the admission criteria for their chosen discipline and those of the Bioethics Unit, which administers the program and teaches the core courses; see [www.mcgill.ca/biomedicalethicsunit/teaching/masters/apply](http://www.mcgill.ca/biomedicalethicsunit/teaching/masters/apply).

Applicants must be accepted by the appropriate Faculty, the Bioethics Graduate Studies Advisory Committee, and Graduate and Postdoctoral Studies.

10.11.3.3.3 Application Dates and Deadlines

Deadlines coincide with those of the chosen base discipline. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

*Note:* Applications for Winter or Summer term admission will not be considered.

10.11.3.4 Biomedical Ethics Faculty

**Director**

J. Kimmelman

**Associate Professors**

E. Bereza; B.A., M.D., C.M. (McG.), C.C.F.P. (C)

C. Ellis; R.R.T. (VGH), B.A. (St. Mary’s), M.A., Ph.D. (Tenn.)

J.R. Fishman; B.A. (Calif., Berk.), Ph.D. (Calif., SF)

J. Kimmelman; B.S. (Duke), Ph.D. (Yale)

N.B. King; B.A. (Penn.), M.A., Ph.D. (Harv.)

**Associate Members**

F. Carnevale (*Ingram School of Nursing*)

M. Hunt (*School of Physical & Occupational Therapy*)

Y. Joly (*Human Genetics*)

B.M. Knoppers (*Centre of Genomics and Policy*)

M.E. Macdonald (*MQHRG*)

T. Maniatis (*Bioethics*)

B. Thombs (*Psychology*)

D. Weinstock (*Institute for Health and Social Policy*)

M.H. Zawati (*Human Genetics*)

10.11.4 Biological and Biomedical Engineering

10.11.4.1 Location

Duff Medical Building

3775 University Street, Room 316
Montreal QC H3A 2B4
Canada
Website: www.mcgill.ca/bbme

10.11.4.2 About Biological and Biomedical Engineering

The Biological and Biomedical Engineering (BBME) graduate program is an interfaculty program involving the Department of Bioengineering in the Faculty of Engineering and the Department of Biomedical Engineering in the Faculty of Medicine. The BBME interfaculty program builds on the excellence and high standard of its predecessor graduate program in Biomedical Engineering. This broader interfaculty restructuring supports the growing trend in research universities toward formalized interdisciplinary studies and multifaculty collaboration.

BBME students come from a wide range of backgrounds including engineering, physics, chemistry, biology, and dentistry, among others. The multicultural diversity of our student body is a strength of the program, as networking and collaborative opportunities are vast. Students in BBME have supervisors associated with the program whose home departments will be spread primarily across the Faculties of Engineering and Medicine.

As researchers in this field unravel the molecular and physiological mechanisms of biology, develop increasingly advanced technologies to transform healthcare, or attempt to reverse-engineer naturally occurring biological solutions, devices, and procedures, alumni of the BBME program are poised to play a critical role in shaping our global future.

Please consult our website for additional information.

Research Domains

Our faculty members are particularly active in research related to the development of quantitative analysis tools and instruments for biological and biomedical research. The ultimate goal is the pursuit of answers to biological and medical questions. Ongoing biological and biomedical engineering research at McGill includes:

- signal analysis, including brain (EEG), muscles (EMG), eyes (EOG), respiration, and mass spectrometry;
- systems analysis, including neuromuscular control, and oculomotor and vestibular control;
- experimental and computational biomechanics, including orthopedic and auditory mechanics;
- biomaterials, including artificial cells;
- medical imaging and image processing;
- micro and nanotechnology and biosensors;
- nanoparticles and cell imaging;
- bioinformatics and computational biology;
- computers in medical education, including interactive 3D models and haptics;
- biological materials and mechanics;
- biomolecular and cellular engineering, and regenerative medicine;
- biomedical, diagnostics, and high throughput screening engineering;
- mechanics of disease;
- tissue engineering, especially concerning 3D and nano-related biological microfluidics devices, such as fungi and cellular traffic;
- biological dynamic devices, from whole-organisms (e.g., bacteria) to nanodevices;
- information processing and storage in biological systems;
- systems and synthetic biology;
- cell mechanisms and the cytoskeleton;
- soft matter physics.

section 6.11.3.5: Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

The Biological and Biomedical Engineering Master's program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes, including: biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, orthopedics, biological materials and mechanobiology, motor proteins and the cytoskeleton, biosensors and biological therapeutics, biological networks, and computational biology. BBME's internationally-renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals, and government and provide a solid basis for Ph.D. studies. Candidates should hold a Bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic biology (physiology, cell biology, or molecular biology).

For more information please consult www.mcgill.ca/bbme/prospective-students/masters-program.
section 6.11.3.6: Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The Biological and Biomedical Engineering doctoral program provides students with advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus on an area of choice while integrating quantitative concepts and engineering tools for the study of natural and life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her future career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. Through independent research and thesis writing, the program will prepare students for careers in academia, industry, hospitals, and government. Students who complete the program will obtain a doctor of philosophy in Biological and Biomedical Engineering. The best preparation for this program is a master's degree in BBME or a related discipline.


10.11.4.3 Biological and Biomedical Engineering Admission Requirements and Application Procedures

10.11.4.3.1 Admission Requirements

For up-to-date admission requirements, please consult [www.mcgill.ca/bbme/prospective-students/how-apply](http://www.mcgill.ca/bbme/prospective-students/how-apply) and [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.2: Admission Requirements (Minimum Requirements to be Considered for Admission)](http://www.mcgill.ca/gradapplicants/apply).

10.11.4.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

Please address enquiries directly to [info.bbme@mcgill.ca](mailto:info.bbme@mcgill.ca).

10.11.4.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Biological and Biomedical Engineering Graduate Program and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program). For additional information, please consult [www.mcgill.ca/bbme/prospective-students/how-apply](http://www.mcgill.ca/bbme/prospective-students/how-apply).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Summer term admission will not be considered.

10.11.4.4 Biological and Biomedical Engineering Faculty

Biological and Biomedical Engineering is an interfaculty program offered jointly by the [Department of Bioengineering](http://www.mcgill.ca/bbme/prospective-students/how-apply) in the Faculty of Engineering and the [Department of Biomedical Engineering](http://www.mcgill.ca/bbme/prospective-students/how-apply) in the Faculty of Medicine.

Please refer to [section 6.11.2.4: Bioengineering Faculty](http://www.mcgill.ca/bbme/prospective-students/how-apply) and [section 10.11.5.4: Biomedical Engineering Faculty](http://www.mcgill.ca/bbme/prospective-students/how-apply) for their respective faculty listings.

10.11.4.5 Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

**NEW PROGRAM**

The Biological and Biomedical Engineering (BBME) Master’s program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment, and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering. BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes in biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics. BBME’s internationally renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia,
hospitals and government and provide a solid basis for Ph.D. studies. Candidates should hold a bachelor’s degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic physiology or cell biology.

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBME 693</td>
<td>6</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>BBME 694</td>
<td>6</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>BBME 695</td>
<td>12</td>
<td>Thesis Submission</td>
</tr>
</tbody>
</table>

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBME 600D1</td>
<td>1.5</td>
<td>Seminars in Biological and Biomedical Engineering</td>
</tr>
<tr>
<td>BBME 600D2</td>
<td>1.5</td>
<td>Seminars in Biological and Biomedical Engineering</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBME 600N1</td>
<td>1.5</td>
<td>Seminars in Biological and Biomedical Engineering</td>
</tr>
<tr>
<td>BBME 600N2</td>
<td>1.5</td>
<td>Seminars in Biological and Biomedical Engineering</td>
</tr>
</tbody>
</table>

**Complementary Courses (18 credits)**

12 credits from BMDE or BIEN courses at the 500-level or higher core courses which may also include MDPH 607, of which the following must be included: 3 credits from the following quantitative courses, or other quantitative courses (at the 500-level or higher) approved by the Graduate Program Director.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEN 510</td>
<td>3</td>
<td>Engineered Nanomaterials for Biomedical Applications</td>
</tr>
<tr>
<td>BIEN 520</td>
<td>3</td>
<td>High Throughput Bioanalytical Devices</td>
</tr>
<tr>
<td>BIEN 530</td>
<td>3</td>
<td>Imaging and Bioanalytical Instrumentation</td>
</tr>
<tr>
<td>BIEN 550</td>
<td>3</td>
<td>Biomolecular Devices</td>
</tr>
<tr>
<td>BIEN 560</td>
<td>3</td>
<td>Biosensors</td>
</tr>
<tr>
<td>BIEN 570</td>
<td>3</td>
<td>Active Mechanics in Biology</td>
</tr>
<tr>
<td>BIEN 590</td>
<td>3</td>
<td>Cell Culture Engineering</td>
</tr>
<tr>
<td>BMDE 502</td>
<td>3</td>
<td>BME Modelling and Identification</td>
</tr>
<tr>
<td>BMDE 503</td>
<td>3</td>
<td>Biomedical Instrumentation</td>
</tr>
<tr>
<td>BMDE 509</td>
<td>3</td>
<td>Quantitative Analysis and Modelling of Cellular Processes</td>
</tr>
<tr>
<td>BMDE 512</td>
<td>3</td>
<td>Finite-Element Modelling in Biomedical Engineering</td>
</tr>
<tr>
<td>BMDE 519</td>
<td>3</td>
<td>Biomedical Signals and Systems</td>
</tr>
<tr>
<td>BMDE 610</td>
<td>3</td>
<td>Functional Neuroimaging Fusion</td>
</tr>
</tbody>
</table>

6 credits from the list below or from other courses (at the 500-level or higher) which have both biomedical content and content from the physical sciences, engineering, or computer science, with the approval of the supervisor and Graduate Program Director.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEN 510</td>
<td>3</td>
<td>Engineered Nanomaterials for Biomedical Applications</td>
</tr>
<tr>
<td>BIEN 520</td>
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<td>High Throughput Bioanalytical Devices</td>
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<tr>
<td>BIEN 530</td>
<td>3</td>
<td>Imaging and Bioanalytical Instrumentation</td>
</tr>
<tr>
<td>BIEN 550</td>
<td>3</td>
<td>Biomolecular Devices</td>
</tr>
<tr>
<td>BIEN 560</td>
<td>3</td>
<td>Biosensors</td>
</tr>
<tr>
<td>BIEN 570</td>
<td>3</td>
<td>Active Mechanics in Biology</td>
</tr>
<tr>
<td>BIEN 590</td>
<td>3</td>
<td>Cell Culture Engineering</td>
</tr>
<tr>
<td>BINF 511</td>
<td>3</td>
<td>Bioinformatics for Genomics</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>BIOL 598</td>
<td>3</td>
<td>Advanced Design and Statistics</td>
</tr>
<tr>
<td>BIOT 505</td>
<td>3</td>
<td>Selected Topics in Biotechnology</td>
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<td>BMDE 501</td>
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<tr>
<td>BMDE 504</td>
<td>3</td>
<td>Biomaterials and Bioperformance</td>
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<tr>
<td>BMDE 505</td>
<td>3</td>
<td>Cell and Tissue Engineering</td>
</tr>
<tr>
<td>BMDE 506</td>
<td>3</td>
<td>Molecular Biology Techniques</td>
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<tr>
<td>BMDE 508</td>
<td>3</td>
<td>Introduction to Micro and Nano-Bioengineering</td>
</tr>
<tr>
<td>BMDE 509</td>
<td>3</td>
<td>Quantitative Analysis and Modelling of Cellular Processes</td>
</tr>
<tr>
<td>BMDE 510</td>
<td>3</td>
<td>Topics in Astrobiology</td>
</tr>
<tr>
<td>BMDE 512</td>
<td>3</td>
<td>Finite-Element Modelling in Biomedical Engineering</td>
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<tr>
<td>BMDE 519</td>
<td>3</td>
<td>Biomedical Signals and Systems</td>
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<tr>
<td>BMDE 610</td>
<td>3</td>
<td>Functional Neuroimaging Fusion</td>
</tr>
<tr>
<td>BMDE 625D1</td>
<td>3</td>
<td>Design of Assistive Technologies: Principles and Praxis</td>
</tr>
<tr>
<td>BMDE 625D2</td>
<td>3</td>
<td>Design of Assistive Technologies: Principles and Praxis</td>
</tr>
<tr>
<td>BMDE 650</td>
<td>3</td>
<td>Advanced Medical Imaging</td>
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<tr>
<td>BMDE 651</td>
<td>3</td>
<td>Orthopaedic Engineering</td>
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<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
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<td>BMDE 653</td>
<td>3</td>
<td>Patents in Biomedical Engineering</td>
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<tr>
<td>BMDE 655</td>
<td>3</td>
<td>Biomedical Clinical Trials - Medical Devices</td>
</tr>
<tr>
<td>CHEE 561</td>
<td>3</td>
<td>Introduction to Soft Tissue Biophysics</td>
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<td>CHEE 563</td>
<td>3</td>
<td>Biofluids and Cardiovascular Mechanics</td>
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<td>CHEE 651</td>
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<td>Advanced Biochemical Engineering</td>
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<td>CHEM 571</td>
<td>3</td>
<td>Polymer Synthesis</td>
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<tr>
<td>COMP 526</td>
<td>3</td>
<td>Probabilistic Reasoning and AI</td>
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<td>COMP 546</td>
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<td>Computational Perception</td>
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<tr>
<td>COMP 551</td>
<td>4</td>
<td>Applied Machine Learning</td>
</tr>
<tr>
<td>COMP 558</td>
<td>3</td>
<td>Fundamentals of Computer Vision</td>
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<tr>
<td>COMP 652</td>
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<td>Machine Learning</td>
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<tr>
<td>COMP 761</td>
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<td>Advanced Topics Theory 2</td>
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<td>DENT 669</td>
<td>3</td>
<td>Extracellular Matrix Biology</td>
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<tr>
<td>ECSE 526</td>
<td>3</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>ECSE 618</td>
<td>4</td>
<td>Haptics</td>
</tr>
<tr>
<td>ECSE 681*</td>
<td>4</td>
<td>Colloquium in Electrical Engineering</td>
</tr>
<tr>
<td>EPIB 521</td>
<td>3</td>
<td>Regression Analysis for Health Sciences</td>
</tr>
<tr>
<td>EXMD 609</td>
<td>3</td>
<td>Cellular Methods in Medical Research</td>
</tr>
<tr>
<td>EXMD 610</td>
<td>3</td>
<td>Molecular Methods in Medical Research</td>
</tr>
<tr>
<td>FACC 510</td>
<td>3</td>
<td>Selected Topics in the Faculty of Engineering 1</td>
</tr>
<tr>
<td>MATH 525</td>
<td>4</td>
<td>Sampling Theory and Applications</td>
</tr>
<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>MDPH 612</td>
<td>3</td>
<td>Instrumentation and Computation in Medical Physics</td>
</tr>
<tr>
<td>MECH 500*</td>
<td>3</td>
<td>Selected Topics in Mechanical Engineering</td>
</tr>
</tbody>
</table>
10.11.4.6 Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The goal of the Biological and Biomedical Engineering Ph.D. program is for students to gain advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus in an area of choice while integrating quantitative concepts and engineering tools for the study of life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. The program will prepare students for careers in academia, industry, hospitals and government. Students who complete the program will obtain a Doctor of Philosophy in Biological and Biomedical Engineering. The best preparation for this program is a Master’s degree in BBME or a related discipline.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

BBME 701 (0) Ph.D. Comprehensive Examination

Students must be registered in this course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

Further courses may be required by the supervisor(s) in consultation with the Graduate Program Director, depending on the educational background of individual students.

10.11.5 Biomedical Engineering

10.11.5.1 Location

Department of Biomedical Engineering
Duff Medical Building
10.11.5.2 About Biomedical Engineering

Excellent laboratory facilities for basic and applied research are available in the Department and in the laboratories of associated staff located elsewhere on campus. The Department operates a network of high-performance workstations and well-equipped mechanical and electronics workshops.

Basic research in the Department concentrates on the application of quantitative engineering analysis methods to basic biomedical research problems. Currently active areas of research include:

- neuromuscular and postural control;
- muscle mechanics;
- the vestibular system;
- oculomotor control;
- the auditory system;
- joint prosthetics;
- biomaterials;
- artificial cells and organs;
- cell and tissue engineering;
- drug delivery;
- microencapsulation;
- microbiome and probiotics;
- functional food and neutraceuticals;
- medical imaging;
- microfluidics;
- nanomedicine and nanotechnology;
- bioinformatics in genomics and proteomics.

Staff members are also active in more applied research related to the development of quantitative analysis tools and instruments for biomedical research. Areas of activity here include: signal analysis, system identification, modelling, simulation and parameter estimation, image processing, pattern recognition, ultrasound, and biorobotics.

section 10.11.5.5: Graduate Certificate (Gr. Cert.) Translational Biomedical Engineering (15 credits)

This program will enable students to translate advances in biomedical engineering research to clinical and commercial solutions. Students will learn the complementary skills needed to take early-stage research results from the bench to the bedside and bridge the gap between invention and product innovation.

The graduate certificate responds to the demand from students for such training and addresses the needs of the biomedical industry for such highly qualified personnel.

For additional information, see the Biomedical Engineering website.

10.11.5.3 Biomedical Engineering Admission Requirements and Application Procedures

10.11.5.3.1 Admission Requirements

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.2: Admission Requirements (Minimum Requirements to be Considered for Admission). In addition, please see the Department website: www.mcgill.ca/bme/prospective-students/certificate.

10.11.5.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Please address enquiries directly to the Department.
10.11.53.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Biomedical Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** Applications for Summer term admission will not be considered.

10.11.5.4 Biomedical Engineering Faculty

**Chair**

R.E. Kearney

**Emeritus Professor**

T.M.S. Chang; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C), F.R.S.(C) (*joint appt. with Physiology*)

**Professors**

D.L. Collins; B.Sc., M.Eng., Ph.D.(McG.) (*joint appt. with Neurology and Neurosurgery*)

H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)

D. Juncker; Dipl., Ph.D.(Neuch-Switzerland)

R.E. Kearney; B.Eng., M.Eng., Ph.D.(McG.)

S. Prakash; B.Sc.(Hon.), M.Sc., M.Tech.(BHU), Ph.D.(McG.)

M. Tabrizian; B.Sc.(Iran), M.Sc., Ph.D.(PMC-France), M.B.A.(HEC) (*joint appt. with Dentistry*)

**Associate Professor**

W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.) (*joint appt. with Otolaryngology*)

**Assistant Professors**

A. Haidar; B.Sc.(Kuwait), M.Sc. A.(École Poly., Montr.), Ph.D.(McG.)

D.A. Rudko; B.Sc.(Br. Col.), M.Sc.(Vic., BC), Ph.D.(W. Ont.)

C.L. Tardif; B.Eng.(McG.), M.Sc.(Lond.), Ph.D.(McG.)

**Associate Members**

S. Baillet (*Neurology and Neurosurgery*)

C. Baker (*Ophthalmology*)

F. Barthelat (*Mechanical Engineering*)

S. Blain-Moraes (*Physical and Occupational Therapy*)

M. Chacron (*Physiology*)

M. Chakravarty (*Psychiatry*)

K. Cullen (*Physiology*)
### Associate Members

- M. Driscoll (Mechanical Engineering)
- A. Ehrlicher (Bioengineering)
- S. Enger (Oncology)
- A.C. Evans; B.Sc.(Liv.), M.Sc.(Sur.), Ph.D.(Leeds) (Neurology and Neurosurgery)
- J. Gotman (Neurology and Neurosurgery)
- D. Guitton (Neurology and Neurosurgery)
- A. Hendricks (Bioengineering)
- R. Hoge (Neurology and Neurosurgery)
- A. Kamen (Bioengineering)
- A. Katsarkas (Otolaryngology)
- J. Kinsella (Bioengineering)
- S. Komarova (Dentistry)
- A.M. Lauzon (Medicine)
- R. Leask (Chemical Engineering)
- I. Levesque (Medical Physics and Oncology)
- N. Li-Jessen (Communications and Science)
- B. Misic (Neurology and Neurosurgery)
- G. Mitsis (Bioengineering)
- L. Mongeau (Mechanical Engineering)
- R. Mongrain (Mechanical Engineering)
- C. Moraes (Chemical Engineering)
- J. Near (Psychiatry)
- D. Nicolau (Bioengineering)
- C. Pack (Neurology and Neurosurgery)
- D. Pasini (Mechanical Engineering)
- W. Reisner (Physics)
- A. Shmuel (Neurology and Neurosurgery)
- B. Willie (Pediatric Surgery)
- Y.B. Xia (Bioengineering)

### Adjunct Professors

- P.G. Charette (Sher.)
- I. El Naqa (Mich.)
- C. Grova (C'dia)
- J.-M. Lina (ETS)
- M. Mekhail (Shriners)
- J.L. Nadeau (Calif. Tech.)
- G.B. Pike (Calg.)
- A. Reader (King's, Lond.)
- T. Veres (NRC)
10.11.5.5 Graduate Certificate (Gr. Cert.) Translational Biomedical Engineering (15 credits)

**NEW PROGRAM**

This program comprises mandatory courses dealing with topics that are unique to the translational process in the biomedical engineering environment. Topics covered will include: managing intellectual property; patents and the patenting process; regulatory affairs; medical standards; quality management systems; and clinical trials. Complementary courses will provide students with advanced training in a specialized area of biomedical engineering selected from the areas where Departmental staff have significant expertise.

In cases where students have taken one or more of the core courses as part of another program, these core courses will be replaced with the equivalent number of credits, at the 500 level or higher, by other appropriate courses selected in consultation with the program director.

### Required Courses (9 credits)

Three courses dealing with issues related specifically to the translation of biomedical engineering advances to clinical and commercial environments:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 653</td>
<td>3</td>
<td>Patents in Biomedical Engineering</td>
</tr>
<tr>
<td>BMDE 654</td>
<td>3</td>
<td>Biomedical Regulatory Affairs - Medical Devices</td>
</tr>
<tr>
<td>BMDE 655</td>
<td>3</td>
<td>Biomedical Clinical Trials - Medical Devices</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

Students must complete 6 credits of biomedical engineering course work selected from one or more of the following domains or other appropriate courses at the 500 level or higher approved by the Program Director:

#### General Biomedical Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 501</td>
<td>3</td>
<td>Selected Topics in Biomedical Engineering</td>
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#### Biomedical Signals and Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 502</td>
<td>3</td>
<td>BME Modelling and Identification</td>
</tr>
<tr>
<td>BMDE 503</td>
<td>3</td>
<td>Biomedical Instrumentation</td>
</tr>
<tr>
<td>BMDE 512</td>
<td>3</td>
<td>Finite-Element Modelling in Biomedical Engineering</td>
</tr>
<tr>
<td>BMDE 519</td>
<td>3</td>
<td>Biomedical Signals and Systems</td>
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</tbody>
</table>

#### Medical Imaging

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIEN 530</td>
<td>3</td>
<td>Imaging and Bioanalytical Instrumentation</td>
</tr>
<tr>
<td>BMDE 610</td>
<td>3</td>
<td>Functional Neuroimaging Fusion</td>
</tr>
<tr>
<td>BMDE 650</td>
<td>3</td>
<td>Advanced Medical Imaging</td>
</tr>
<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Medical Imaging</td>
</tr>
</tbody>
</table>

#### Biomaterials and Tissue Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEN 510</td>
<td>3</td>
<td>Engineered Nanomaterials for Biomedical Applications</td>
</tr>
<tr>
<td>BMDE 504</td>
<td>3</td>
<td>Biomaterials and Bioperformance</td>
</tr>
<tr>
<td>BMDE 505</td>
<td>3</td>
<td>Cell and Tissue Engineering</td>
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</table>

#### Biosensors and Devices

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIEN 520</td>
<td>3</td>
<td>High Throughput Bioanalytical Devices</td>
</tr>
<tr>
<td>BIEN 550</td>
<td>3</td>
<td>Biomolecular Devices</td>
</tr>
<tr>
<td>BIEN 560</td>
<td>3</td>
<td>Biosensors</td>
</tr>
</tbody>
</table>
10.11.6 Communication Sciences and Disorders

10.11.6.1 Location

School of Communication Sciences and Disorders
2001 McGill College Avenue, Suite 800
Montreal QC H3A 1G1
Canada
Telephone: 514-398-4137
Fax: 514-398-8123
Email: scsd@mcgill.ca
Website: www.mcgill.ca/scsd

10.11.6.2 About Communication Sciences and Disorders

The School provides both professional and research training in communication sciences and disorders at the graduate level through its M.Sc. (Applied), M.Sc., and Ph.D. degrees. We were the first department in Canada to provide both clinical and research degrees. Our M.Sc.A. program aims to educate the next generation of well-prepared and innovative speech-language pathology professionals by providing enriched classroom training, clinical laboratory activities that enhance the transition from theory to practice, and outstanding clinical practicum experiences. Our research degrees are designed to develop leading researchers and scholars, who will go on to train future investigators in the field of communication sciences and disorders and who, through their research, will advance our understanding of the processes of human communication and its breakdown.

Interdisciplinary interactions are at the core of our research training approach, which includes preparation to conduct both fundamental and clinically applied investigations. Our professors have collaborative ties with many departments and institutes of McGill:

- psychology;
- linguistics;
- neuroscience;
- otolaryngology;
- biomedical engineering;
- Montreal Neurological Institute and Hospital;
- other Montreal universities.

They also maintain national and international collaborations. Students can access this rich collaborative network via the McGill Centre for Research on Brain, Language and Music, a world-class interdisciplinary research centre established and directed by the School. The multilingual context in which we reside provides a unique environment for language research.

The School offers:

- a professional degree in Communication Sciences and Disorders at the M.Sc. (Applied) level with specialization in Speech Language Pathology
- two research degrees: an M.Sc. (Research) and a Ph.D. in Communication Sciences and Disorders.

Requirements for Licensure

The majority of provinces in Canada and certain states in the U.S. require that those intending to practise as speech-language pathologists within their borders comply with special provincial or state licensing regulations. Graduates wishing to practise in the province of Quebec must be members of the Ordre des Orthophonistes et Audiologistes du Québec (OOAQ) in order to call themselves speech-language pathologists. Further information is available from the OOAQ at:

235 boulevard René-Lévesque est, bureau 601
Montreal QC H2X 1N8
Telephone: 514-282-9123
Email: info@ooaq.qc.ca
Website: www.ooaq.qc.ca

Quebec law requires that candidates seeking licensure in provincially recognized professions demonstrate a verbal and written working knowledge of the French language. See University Regulations & Resources > Undergraduate > Admission to Professional and Graduate Studies > Language Requirements for Professions.

Funding
Montreal League for the Hard of Hearing Award – Candidates must be enrolled at the graduate level in the School and working in the area of hearing impairment. Awarded by the School. Value: up to $1,000.

section 10.11.6.6: Master of Science, Applied (M.Sc.A.) Communication Sciences & Disorders (Non-Thesis): Speech-Language Pathology (82 credits)

The professional degree leads to a Master of Science (Applied) with a specialization in Speech Language Pathology. The program involves two academic years of full-time study and related practical work followed by a Summer internship. To prepare students as creative professionals, the program emphasizes the understanding of principles and theories, and their present or potential clinical applications, in addition to the teaching of specific techniques for assessment and intervention. Active participation in the learning process is encouraged.

The profession of speech-language pathology concerns assessment and intervention in speech and language disorders. In particular, the speech-language pathologist is concerned with two major parameters of communication sciences and disorders: language and speech. At present, most speech-language pathologists in Canada work in hospitals, public school systems, rehabilitation centres, and in special education facilities.

Students pursuing the M.Sc.A. complete the basic academic content and clinical practica required in preparation for clinical practice as outlined by Speech-Language and Audiology Canada (SAC). Our M.Sc.A. program is completed in two years whereas some other programs require three years to complete. The emphasis on bridging theory and clinical practice is very strong in our program. Our admission requirements emphasize basic sciences and do not require completion of a specific undergraduate degree. This flexible entry accommodates students with undergraduate degrees in different fields and promotes diversity within our student body. Our goal is to recruit and train skillful therapists and problem-solvers who can rely on strong foundation in theory to address challenging clinical issues. Our M.Sc.A. graduates typically pursue a professional career working in schools, hospitals, rehabilitation centres, or in private practices. A subset of our graduates will enter a doctoral program (immediately or after a period of clinical employment) to pursue a research career.

Research Degrees – M.Sc. and Ph.D.

section 10.11.6.5: Master of Science (M.Sc.) Communication Sciences and Disorders (Thesis) (45 credits)

Selected candidates may be accepted for the M.Sc. research degree. Each student's thesis supervisor and Thesis Committee design an individualized program of study in collaboration with the student. The program can include graduate courses offered by the School and by other departments at McGill.

This program is designed for students who wish to combine research training with their clinical (M.Sc.A.) program or students from related fields who wish to gain research experience in communication sciences to prepare for doctoral studies. Students are required to take two semesters (6 credits) of statistics and complete a thesis. Admission to the M.Sc. research program requires identification of an SCSD professor(s) with relevant expertise to mentor the student through the thesis process. Graduates of our M.Sc. research program follow diverse career paths working in clinical settings (if they also have a clinical degree) or settings that combine clinical and research activities or continuing their research training at the doctoral level.

section 10.11.6.7: Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders

Selected candidates may be accepted for the Ph.D. research degree. Each student's thesis supervisor and Thesis Committee design an individualized program of study in collaboration with the student. The program can include graduate courses offered by the School and by other departments at McGill.

Students pursuing a Ph.D. in SCSD have varied educational backgrounds, including both clinical and related non-clinical fields. Students who enter the program from a related field (e.g., Psychology, Linguistics) or without a master's thesis complete a Qualifying year, which includes coursework and a research project. This flexible entry attracts independent scholars with diverse backgrounds and interests, which creates a stimulating and enriched training environment. The main component of the Ph.D. program (beyond the Qualifying year) has minimal required coursework and is structured to support students as they develop and pursue an innovative, individualized program of doctoral studies. Admission to the doctoral program requires identification of a SCSD professor(s) with relevant expertise to mentor the student in this process. Ph.D. students have the opportunity to pursue an interdisciplinary specialization in language acquisition through the McGill Language Acquisition Program, which intersects with McGill departments of Linguistics, Psychology, and Education. Our Ph.D. graduates typically pursue academic careers in universities or research institutes, but some work in settings that combine research and professional activities.

section 10.11.6.8: Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders: Language Acquisition

Information about this option is available from the School and from www.psych.mcgill.ca/ap.html and www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities. This unique interdisciplinary Ph.D. program is available for doctoral students across four departments at McGill including SCSD, Linguistics, Psychology, and Integrated Studies in Education. The program is designed to provide enriched training focused on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology. In addition to the SCSD Ph.D. requirements, students in this program must complete 6 credits of coursework in language acquisition (including at least one course that is not in their home department), and four interdisciplinary seminars (2 credits each) and must include a faculty member in the Language Acquisition Program on their thesis committee.
10.11.6.3 Communication Sciences and Disorders Admission Requirements and Applications Procedures

10.11.6.3.1 Admission Requirements

M.Sc. (Applied)

An applicant must hold an undergraduate degree with a minimum B average (3.0 on a 4.0 point scale) or better in areas relevant to the selected field of specialization. Specific requirements are 6 credits in statistics, a total of 18 credits across the disciplines of psychology and linguistics (with a minimum of 6 credits in each discipline). Knowledge of physiology is also desirable.

M.Sc. in Communication Sciences and Disorders

The M.Sc. provides research training for:

1. students who are also taking courses for professional qualification;
2. students who have a non-thesis professional degree in Communication Sciences and Disorders; and
3. students with degrees in related fields who wish to do research but not obtain professional qualification in Communication Sciences and Disorders.

Ph.D. in Communication Sciences and Disorders

Applicants should normally have a master's degree with thesis or its equivalent in Communication Sciences and Disorders or a related field (e.g., psychology, linguistics).

Students who possess an appropriate bachelor’s degree or master’s degree without thesis will also be considered for the Ph.D. program, but, if admitted, must first complete a Qualifying year of coursework and a research project.

Applicants to graduate studies whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission:

- the Test of English as a Foreign Language (TOEFL) with a minimum score of 95 on the Internet-based test (iBT; 587 on the paper-based test (PBT)) with minimum component scores of 24 in both Speaking and Writing and 21 in both Reading and Listening;

  OR

- the International English Language Testing System (IELTS) with a minimum overall band score of 7.0.

10.11.6.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Please see the School of Communication Sciences and Disorders website for required application materials.

M.Sc. (Thesis) and Ph.D. programs

All applications received by the application deadlines are automatically considered for any internal funding or awards made available to the Department for recruitment purposes. Students who apply for Fall admission generally have the most options with respect to applying for external funding as well as for being considered for internal support.

10.11.6.3.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

M.Sc. (Applied)

- Syllabi of Prerequisite Statistics Courses Taken (for details, see the School’s website)
- Curriculum Vitae
- Two Reference Letters (one professional and one academic)
- Casper Assessment

M.Sc. (Thesis) and Ph.D.

- Personal Statement
- Curriculum Vitae
- Writing Sample
- Acceptance by a research supervisor
- Two Reference Letters (academic)

Applications will be considered upon receipt of supporting documents as outlined above. All applicants are strongly encouraged to submit reports of their performance on the Graduate Record Examination (GRE).
10.11.6.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Communication Sciences and Disorders and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.6.4 Communication Sciences and Disorders Faculty

**Director and Associate Dean**

Marc D. Pell

**Graduate Program Director**

Linda Polka

**Professors**

- Shari R. Baum; B.A.(Cornell), M.S.(Vermont), M.A., Ph.D.(Brown)
- Marc D. Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)
- Linda Polka; B.A.(Slippery Rock), M.A.(Minn.), Ph.D.(S. Flor.)
- Susan Rvachew; B.Sc.(Alta.), M.Sc., Ph.D.(Calg.)
- Karsten Steinhauer; M.Sc., Ph.D.(Dr.rer.nat)(Free Univ., Berlin)
- Elin Thordardottir; B.A., M.Sc., Ph.D.(Wisc.-Madison)

**Associate Professors**

- Laura Gonnerman; B.A.(Boston), M.A.(Middlebury), Ph.D.(USC)
- Aparna Nadig; B.A.(Reed), M.S., Ph.D.(Brown)

**Assistant Professors**

- Noémie Auclair-Ouellet; B.A., M.Sc., Ph.D.(Laval)
- Meghan Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)
- Nicole Yee-Key Li-Jessen; B.Sc., M.Phil.(HK), Ph.D.(Pitt.)

**Assistant Professors (Professional)**

- Kelly Root; B.A.(Ott.), M.Sc.(Dal.)
- Sophie Vaillancourt; B.Sc., MOA(Montr.), M.B.A.(McG.)

**Faculty Lecturer**

- Mariska Burger; B.Sc.(Heerlen)

**Assistant Professors (Part-Time)**

- Christina Lattermann; Staatlich anerkannte Logopaedin(Westfaelische Wilhelms-Universitat, Muenster), M.Sc.(McG.), Ph.D.(Kassel)
- Rosalee Shenker; B.Sc.(Syrac.), M.A.(Calif. St.), Ph.D.(McG.)
Faculty Lecturers (Part-Time)

Anna Baudier; B.Sc.(Montr.), M.Sc.A.(McG.)
Liliane Brunetti; B.Sc.(C'dia), M.Cl.Sc.(W. Ont.)
Jesse Burns; B.A.(C'dia), M.Sc.(McG.)
Patricia Coffin; B.A.(PEI), M.Sc.(Dal.)
Sarah Colby; B.A., M.A.(Ott.)
Ariana Fraid; B.A., M.Sc.A.(McG.)
Lory Harboyan; B.A., M.A.(Haigazian), M.Sc.A.(McG.)
Suzanne Lalonde; B.A.(Montr.), M.Sc.A.(McG.)
Lisa Massaro; B.A.(York), M.Sc.(McG.)
Maia Masuda; B.Mus., M.Sc.(McG.)
Gina Mills; B.Sc.(Acad.), M.Sc.(Dal.)
Amanda Ovadia; B.Sc., M.Sc.(McG.)

Part-Time Professor, Post-Retirement

Vincent Gracco; B.A., M.A.(San Diego), Ph.D.(Wisc.-Madison)

Adjunct Professors

David McFarland (Montr.)
Lucie Menard (UQAM)
Doug Shiller (McG.)

Associate Member

Eva Kehayia (Physical and Occupational Therapy)

10.11.6.5 Master of Science (M.Sc.) Communication Sciences and Disorders (Thesis) (45 credits)

Thesis Courses (24 credits)

SCSD 671 (12) M.Sc. Thesis 1
SCSD 672 (12) M.Sc. Thesis 2

Complementary Courses (21 credits)

6-21 credits chosen from:

SCSD 675 (12) Special Topics 1
SCSD 676 (9) Special Topics 2
SCSD 677 (6) Special Topics 3
SCSD 678 (3) Special Topics 4

0-15 credits chosen from:

SCSD 673 (12) M.Sc. Thesis 3
SCSD 674 (3) M.Sc. Thesis 4

or courses in other departments, as arranged with the student's thesis supervisor.
The professional degree program involves two academic years of full-time study and related practical work, followed by a Summer internship.

**Required Courses (76 credits)**

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<th>Course Code</th>
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<th>Course Title</th>
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<td>IPEA 500</td>
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<td>Roles in Interprofessional Teams</td>
</tr>
<tr>
<td>IPEA 501</td>
<td>0</td>
<td>Communication in Interprofessional Teams</td>
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<tr>
<td>IPEA 502</td>
<td>0</td>
<td>Patient-Centred Care in Action</td>
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<td>SCSD 609</td>
<td>3</td>
<td>Neuromotor Disorders</td>
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<td>SCSD 616</td>
<td>3</td>
<td>Audiology</td>
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<tr>
<td>SCSD 617</td>
<td>3</td>
<td>Anatomy and Physiology: Speech and Hearing</td>
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<td>SCSD 618</td>
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<td>Research and Measurement Methodologies 1</td>
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<td>Language Processes</td>
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<td>3</td>
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<td>SCSD 632</td>
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<td>SCSD 633</td>
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<td>SCSD 637</td>
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<td>SCSD 638</td>
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<td>SCSD 643</td>
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<td>Developmental Language Disorders 2</td>
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<td>SCSD 644</td>
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<td>SCSD 669</td>
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<td>ASD and Neurodevelopmental Disorders</td>
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<tr>
<td>SCSD 679</td>
<td>12</td>
<td>Advanced Clinical Practicum</td>
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<tr>
<td>SCSD 680</td>
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<td>Deglutition and Dysphagia</td>
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<td>Practicum and Seminar 3</td>
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<td>SCSD 684</td>
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<td>Practicum and Seminar 4</td>
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<tr>
<td>SCSD 688</td>
<td>1</td>
<td>Genetics in Speech-Language Pathology Practice</td>
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<td>SCSD 689</td>
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<td>Management Cranio-Facial Disorders</td>
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**Complementary Courses (6 credits)**

6 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tr>
<td>SCSD 664</td>
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<td>Communication Sciences and Disorders 1</td>
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<td>SCSD 666</td>
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<td>Communication Sciences and Disorders 3</td>
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<td>SCSD 667</td>
<td>3</td>
<td>Communication Sciences and Disorders 4</td>
</tr>
<tr>
<td>SCSD 670</td>
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<td>Communication Sciences and Disorders 2</td>
</tr>
<tr>
<td>SCSD 678</td>
<td>3</td>
<td>Special Topics 4</td>
</tr>
</tbody>
</table>
10.11.6.7 Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

- SCSD 652 (3) Advanced Research Seminar 1
- SCSD 653 (3) Advanced Research Seminar 2
- SCSD 685 (3) Research Project 1
- SCSD 686 (3) Research Project 2
- SCSD 701 (0) Doctoral Comprehensive

Complementary Courses (6 credits)

Minimum of 6 credits of graduate-level statistics from courses such as:

- EDPE 676 (3) Intermediate Statistics
- EDPE 682 (3) Univariate/Multivariate Analysis
- EDPE 684 (3) Applied Multivariate Statistics
- EPIB 621 (4) Data Analysis in Health Sciences
- EPIB 622 (3) Scientific Communication
- PSYC 650 (3) Advanced Statistics 1
- PSYC 651 (3) Advanced Statistics 2

Any other course requirements specified for the student's individual program of study.

10.11.6.8 Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders: Language Acquisition

Students must satisfy all program requirements for the Ph.D. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

- LING 710 (2) Language Acquisition Issues 2
- PSYC 709 (2) Language Acquisition Issues 1
- SCSD 652 (3) Advanced Research Seminar 1
- SCSD 653 (3) Advanced Research Seminar 2
- SCSD 701 (0) Doctoral Comprehensive
- SCSD 712 (2) Language Acquisition Issues 4

Complementary Courses (6 credits)

3 credits of graduate-level statistics from courses such as:

- EDPE 676 (3) Intermediate Statistics
Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

At least two courses, selected from the following list.

EDSL 620 (3) Social Justice Issues in Second Language Education
EDSL 623 (3) Second Language Learning
EDSL 624 (3) Educational Sociolinguistics
EDSL 627 (3) Instructed Second Language Acquisition Research
EDSL 629 (3) Second Language Assessment
EDSL 632 (3) Second Language Literacy Development
LING 555 (3) Language Acquisition 2
LING 590 (3) Language Acquisition and Breakdown
LING 651 (3) Topics in Acquisition of Phonology
LING 655 (3) Theory of L2 Acquisition
LING 751 (3) Advanced Seminar: Experimental 1
LING 752 (3) Advanced Seminar: Experimental 2
PSYC 545 (3) Topics in Language Acquisition
PSYC 735 (3) Developmental Psychology and Language
SCSD 619 (3) Phonological Development
SCSD 632 (3) Phonological Disorders: Children
SCSD 633 (3) Language Development
SCSD 637 (3) Developmental Language Disorders 1
SCSD 643 (3) Developmental Language Disorders 2

**Elective Course**

0-2 credits from the following:

EDSL 711 (2) Language Acquisition Issues 3

**10.11.7 Epidemiology and Biostatistics**

**10.11.7.1 Location**

Department of Epidemiology, Biostatistics and Occupational Health
1020 Pine Avenue West
Montreal QC H3A 1A2
Canada
Telephone: 514-398-6258
Email: graduate.eboh@mcgill.ca
Website: www.mcgill.ca/epi-biostat-occh
10.11.7.2 About Epidemiology and Biostatistics

The Department offers master's and doctoral programs in both Epidemiology and Biostatistics, as well as a Master's of Science in Public Health. The methods learned in these fields are used not only in the study of diseases, but also in clinical research; health services research; public health; program planning and evaluation; and policy development. Our faculty members are at the forefront of their research domains and include epidemiologists, biostatisticians, clinician scientists, medical informatics specialists, public health specialists, health economists, medical sociologists, and health geographers.

Research in the Department spans a broad range of areas, including:

- biostatistics;
- clinical and public health informatics;
- environmental and occupational health;
- health care delivery and organization;
- infectious diseases;
- pharmacoepidemiology;
- population and public health;
- social epidemiology;
- epidemiologic methods;
- chronic diseases;
- reproductive and perinatal epidemiology;
- genetic epidemiology;
- global health;
- causal inference;
- and many cross-disciplinary activities.

Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

10.11.7.3 Epidemiology, Biostatistics and Occupational Health Faculty

Chair
G. Paradis

Emeritus Professors
M.R. Becklake; M.B.B.Ch., M.D.(Witw.), F.R.C.P.
J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)
A. Lippman; B.A.(Cornell), Ph.D.(McG.) (In memoriam)
J. McCusker; M.D.,C.M.(McG.), M.P.H., Ph.D.(Col.)
O.S. Miettinen; M.D.(Helsinki), M.P.H., M.S., Ph.D.(Minn.)
I.B. Pless; B.A., M.D.(W. Ont.)
S.H. Shapiro; B.S.(Bucknell), M.S., Ph.D.(Stan.)
G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

Professors Post-Retirement
J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)
A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome)
J. McCusker; M.D.,C.M.(McG.), M.P.H., Ph.D.(Col.)
I.B. Pless; B.A., M.D.(W. Ont.)
G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)
Associate Professors Post-Retirement

B. Case; B.Sc., M.D., C.M., M.Sc.(McG.), Dip.Occ.Hyg., F.R.C.P.(C)

Professors

M. Abrahamowicz; Ph.D.(Cracow) (James McGill Professor)
J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (joint appt. with Medicine)
E.L.F. Franco; M.P.H., Dr.P.H.(Chapel Hill) (joint appt. with Oncology) (James McGill Professor)
R. Fuhrer; B.A.(CUNY (Brooklyn Coll.)), M.Sc., Ph.D.(Calif.-San Francisco) (on leave Jan. to June 2018)
C. Greenwood; B.Sc.(McG.), M.Sc.(Wat.), Ph.D.(Tor.) (joint appt. with Medicine)
T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop’s), Ph.D.(McG.)
C. Hankins; B.A.(Hons.), M.D.(Calg.), M.Sc.(Lond.), Ph.D.(Amster.), C.C.F.P., F.R.C.P.(C)
J.A. Hanley; B.Sc., M.Sc.(N.U.I.), Ph.D.(Wat.)
C. Infante-Rivard; M.D.(Montr.), M.P.H.(Calif.-LA), Ph.D.(McG.), F.R.C.P.(C) (James McGill Professor)
L. Joseph; M.Sc., Ph.D.(McG.)
J. Kaufman; B.A.(Johns Hop.), Ph.D.(Mich.)
M.S. Kramer; B.A.(Chic.), M.D.(Yale) (joint appt. with Pediatrics) (James McGill Professor)
R. Menzies; M.D., C.M., M.Sc.(McG.) (joint appt. with Medicine)
M. Pai; M.B.B.S.(Stanley Med. Coll.), M.D.(Christian Medical Coll.), Ph.D.(Calif., Berk.) (Canada Research Chair)
G. Paradis; M.D.(Montr.), M.Sc.(McG.), F.R.C.P.(C) (Strathcona Prof. in Epidemiology)
R.W. Platt; B.Sc.(McG.), M.Sc.(Manit.), Ph.D.(Wash.) (joint. appt. with Pediatrics) (Albert Boehringer 1st Chair in Pharmacoepidemiology)
S. Sussai; M.Sc.(McG.), Ph.D.(Flor.) (joint appt. with Medicine) (James McGill Professor)
R. Tamblyn; M.Sc.(McM.), Ph.D.(McG.) (joint appt. with Medicine) (James McGill Professor)
C. Wolfson; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Medicine)

Associate Professors

A. Adrien; M.D., M.Sc.(McG.)
R. Allard; B.A.(Montr.), M.D., C.M., M.Sc.(McG.)
L. Azoulay; B.Sc.(Montr.), M.Sc.(McG.), Ph.D.(Montr.) (joint appt. with Oncology) (FRQ-S CB Jr 2) (William Dawson Scholar)
O. Basso; Ph.D.(Milan) (joint appt. with Obstetrics and Gynecology)
A. Benedetti; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Medicine) (FRQ-S CB Jr 1)
D. Buckeridge; M.D.(Qu.), M.Sc.(Tor.), Ph.D.(Stan.) (CIHR Applied Public Health Chair)
J. Cox; B.Sc., B.A., M.D.(Dal.), M.Sc.(McG.), C.C.F.P., F.R.C.P.(C)
N. Dendukuri; M.Sc.(Indian IT), Ph.D.(McG.) (PT) (joint appt. with Medicine)
P. Héroux; B.Sc.(Laval), M.Sc., Ph.D.(I.N.R.S.)
E.E.M. Moodie; B.A.(Winn.), M.Phil.(Camb.), Ph.D.(Wash.) (William Dawson Scholar)
A. Nandi; B.S.(Coll. of New Jersey), M.P.H.(Col.), Ph.D.(Johns Hop.) (joint. appt. with Institute for Health and Social Policy) (Canada Research Chair) (on leave Sept. 2017 to Aug. 2018)
A. Quesnel-Vallée; B.A., M.Sc.(Montr.), M.A., Ph.D.(Duke) (joint appt. with Sociology) (Canada Research Chair)
M. Rossignol; B.Sc., M.D.(Sher.), M.Sc.(McG.)
A. Schmidt; B.Sc., M.Sc.(Federal Rio de Janeiro), Ph.D.(Sheff.)
E. Strumpf; B.A.(Smith), Ph.D.(Harv.) (joint appt. with Economics) (William Dawson Scholar)
P. Tousignant; B.A., M.D.(Laval), M.Sc.(McG.), F.R.C.P.(C) (PT)
Assistant Professors

J. Baumgartner; B.A.(Wisc.), M.Sc.(Harv.), Ph.D.(Wisc.) (joint appt. with Institute of Health and Social Policy) (CIHR New Investigator) (William Dawson Scholar)

J. Chevrier; B.Sc., M.Sc.(Laval), Ph.D.(Calif., Berk.) (Canada Research Chair)

A. Daftary; B.Sc.(Manit.), M.Sc.P.H.(Col.), Ph.D.(Tor.) (joint appt. with MUHC-RI)

K. Dehghani; B.Sc.(SUNY), M.Sc.(’western), M.D.(Tor.), M.Sc.P.H.(Harv.), C.C.F.P.(C), F.R.C.P.(C)

K. Fillion; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Medicine) (CIHR New Investigator)

D. Kaiser; B.Sc., M.D.,C.M., M.Sc.(McG.)

M. Maheu-Giroux; B.Sc.(Montr.), M.Sc.(McG.), D.Sc.(Harv.)

S. Martin; M.D.(Tor.), M.Sc.(McG.) (PT)

L. Patry; B.Sc., M.D.(Laval), F.R.C.P.(C) (PT)

F. Richer; B.Sc., M.D.(Ott.), M.Sc.(McG.), F.R.C.P.(C)


C. Stich; M.Sc.(Free Univ., Berlin), Ph.D.(Free Univ., Berlin/Toulouse II)

G. Tan; D.Phil.(Oxf.) (PT)

S. Weichenthal; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Oncology) (Cancer Research Society/FRQ-S)

S. Yang; B.A.(Ajou), M.Sc.(McG.), Ph.D.(Mich.)

Associate Members

Biomedical Ethics Unit: J. Kimmelman, N. King

Dentistry: P. Allison, J. Feine

Family Medicine: A. Andermann, E. Robinson

Geography: N. Ross

Human Genetics: S. Gravel

Human Nutrition: N. Basu

Internal Medicine, MUHC: N. Dayan, M. Young


Neurology and Neurosurgery: C. Renoux

Ob/Gyn: H. Abenhaim, R. Gagnon


Physical and Occupational Therapy: S. Ahmed, A. Bussieres

Psychiatry: E. Latimer, A. Malla, X. Meng, N. Schmitz, B. Thombs

Sociology: S. Clark

Surgery: A. Andalib, D. Deckelbaum, A. N. Merguerditian

Lecturers


Adjunct Professors

Asociación Civil Selva Amazónica Peru: M. Casapia

Boehringer Ingelheim GmbH: D. Bartels

Bristol-Myers Squibb Canada: A.A. Tahami Monfared

Caro Research: J. Caro


**Adjunct Professors**

*Concordia University*: P.E. Boileau  
*Contex*: J.P. Gauvin  
*DSP*: M. Baillargeon, C. Dea, G. Denis, C. Fuller, A. Kossowski, R. Lessard, R. Massé, S. Palmieri, S. Perron, M. Roy  
*Harvard Univ.*: J. Brownstein  
*Hôpital Ste. Justine*: M. Henderson  
*INESSS*: D. Roy  
*INSPQ*: N. Auger, E. Lo, S. Stock  
*Montreal Chest Hospital Centre*: P. Rohan  
*Mount Sinai*: M. Baltzan  
*Public Health Agency of Canada*: G. Thomas-Reilly  
*Shire Inc.*: A. Koutsavlis  
*Univ. of Bern*: A. Chiolero  
*Univ. of Calgary*: A Clarke  
*Univ. Hospital Basel*: J.R. Young  
*Univ. de Montréal*: C. Quach-Thanh, A. Motulsky, M.E. Schnitzer, J. Siemiatycki  
*Univ. de Sherbrooke*: C. Rochefort

**10.11.7.4 Epidemiology**

The Department offers master's and doctoral degrees in Epidemiology. The methods learned in these fields are used not only in the study of diseases, but also in clinical research, health services research, public health, program planning and evaluation, and policy development. Our faculty members are at the forefront of their research domains and include epidemiologists, biostatisticians, clinician scientists, medical informatics specialists, public health specialists, health economists, medical sociologists, and health geographers. Research in the Department spans a broad range of areas, including:

- clinical and public health informatics;  
- environmental and occupational health;  
- health care delivery and organization;  
- infectious diseases;  
- pharmacoepidemiology;  
- population and public health;  
- social epidemiology;  
- epidemiologic methods;  
- chronic diseases;  
- reproductive and perinatal epidemiology;  
- genetic epidemiology;  
- global health;  
- causal inference;  
- and many cross-disciplinary activities.

Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

**section 10.11.7.4.3: Master of Science (M.Sc.) Epidemiology (Thesis) (48 credits)**

Applicants to the M.Sc. program should preferably hold a bachelor’s degree in the natural sciences (e.g., chemistry, microbiology, human genetics), quantitative sciences (e.g., computer science, statistics), or social sciences (e.g., sociology, psychology, economics, geography), or hold a degree in one of the health professional sciences (e.g., medicine, nursing, social work, nutrition). Applicants must have an interest in health research, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate level.
section 10.11.7.4.3: Master of Science (M.Sc.) Epidemiology (Thesis) (48 credits)

The program leading to a master's degree is designed to provide training in both theory and practice in the selected discipline. Courses require intellectual and academic rigour, and the program provides students with an opportunity to synthesize the training in the form of a thesis. Students will study the foundations and principles of epidemiology and applied biostatistics, in order to design, conduct, and analyze clinical, population-based, environmental, pharmaco-epidemiological, policy, and methodological health-related research. Graduates of the program often go on to do doctoral work or become research associates in public, private, and academic settings. McGill graduates are known for methodological and quantitative rigour, and quantitative analytic independence. While their core training is in methods, rather than specific substantive areas, students learn about substantive areas in the context of their research and through elective courses.

section 10.11.7.4.4: Master of Science (M.Sc.) Epidemiology (Non-Thesis): Environmental & Occupational Health (48 credits)

This program provides in-depth training in methods used in Environmental and Occupational Health (EOH) and the application of these methods to study the effects of environmental and occupational exposures on human health. Students will be provided with tools to critically evaluate studies in EOH and be able to participate in these studies; learn how to apply specific methods to environmental and occupational problems; and understand how to apply research results to public health or policy. Career opportunities exist in academia, industry, and the public health sectors. Each student will be assigned a supervisor to provide guidance for their project. Research topics must relate to environmental and occupational health and receive approval from the program coordinating committee.

section 10.11.7.4.5: Master of Science (M.Sc.) Epidemiology (Non-Thesis): Pharmacoepidemiology (48 credits)

Applicants to the Pharmacoepidemiology Option of the M.Sc. (Non-Thesis) program should hold a bachelor's degree in the natural or quantitative sciences (e.g., chemistry, microbiology, computer science, statistics, economics) or hold a degree in one of the health professional sciences (e.g., medicine, pharmacy). Applicants must have an interest in the epidemiology of medications, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate level. The Pharmacoepidemiology Option is designed to provide training in both theory and practice of pharmacoepidemiology. Students will study the foundations and principles of epidemiology and applied biostatistics in order to design, conduct, and analyze pharmacoepidemiological research. Courses require intellectual and academic rigour, and the program provides students with an opportunity to obtain specialized training in pharmacoepidemiology, including pharmacoepidemiologic methods, pharmacology for pharmacoepidemiologists, and practical experience in the form of a research project. Graduates of the program often go on to do doctoral work or become research associates in public, private, and academic settings. With a world-renowned reputation for excellence in pharmacoepidemiology, McGill-trained pharmacoepidemiologists are known for methodological and quantitative rigour, and quantitative analytic independence.

section 10.11.7.4.9: Doctor of Philosophy (Ph.D.) Epidemiology

This program may be of interest to students from the natural or quantitative sciences (e.g., microbiology, computer science, statistics, economics, geography), quantitative social sciences (e.g., sociology, psychology), or the health professions (e.g., medicine, nursing, social work, nutrition). Applicants must have an interest in health research, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate and master's levels.

The Ph.D. program prepares students with the advanced epidemiological research skills needed to undertake original contributions to new knowledge related to the determinants of health and disease, prevention, prognosis, treatment, and outcomes. The program is generally completed in four to five years. Graduates will be prepared to engage in scientific collaboration, and communicate results to other scientists and diverse audiences. They will go on to careers in public health, health planning, and quality monitoring in local, regional, federal, and international health authorities, statistical and technology assessment agencies, the pharmaceutical industry, and in clinical and academic research organizations. McGill graduates are known for their methodological and quantitative rigour and quantitative analytic independence. While their core training is in methods, rather than specific substantive areas, students learn about substantive areas in the context of their research and through elective courses.

section 10.11.7.4.10: Doctor of Philosophy (Ph.D.) Epidemiology: Global Health

Students admitted to the Ph.D. degree in Epidemiology who have an interest in global health can receive additional recognition for completing the Global Health Option within their degree program. Students can fulfill the requirements for both the Ph.D. and the Global Health Option within the normal Ph.D. timeline. Over and above the core Ph.D. training, students in the Global Health Option will undertake global health-dedicated coursework and the thesis would be of relevance to global health. This additional global health training will provide students with insight into the major global health challenges of today's world. This area of study, research, and practice prioritizes improving health and achieving equity in health for all people worldwide. McGill and its affiliated hospitals have close to 200 researchers involved in global health work, from basic biomedical research on tropical diseases to large-scale population studies on the social determinants of health. Students at McGill can be exposed to the work of 20 teams working in all major areas of global health, including Infectious and Tropical Diseases; Global Environmental Health; and Global Mental Health, among others. For more information, visit www.mcgill.ca/globalhealth. With this additional Global Health qualification, Ph.D. graduates will benefit from opportunities for future training or work in those institutions or organizations that are active in global health.

section 10.11.7.4.11: Doctor of Philosophy (Ph.D.) Epidemiology: Pharmacoepidemiology

The Pharmacoepidemiology Option of the Ph.D. Program may be of interest to students from the natural or quantitative sciences (e.g., microbiology, computer science, biostatistics, statistics, economics). Public or Population Health, or Epidemiology, or who hold a degree in one of the health professional sciences (e.g., medicine, pharmacy). Applicants must have an interest in the epidemiology of medications, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate level. The Pharmacoepidemiology Option prepares students with the advanced epidemiological research skills needed to undertake original contributions to new knowledge related to pharmacoepidemiology. The program
**section 10.11.7.4.11: Doctor of Philosophy (Ph.D.) Epidemiology: Pharmacoepidemiology**

is generally completed in four to five years. In addition to obtaining advanced training in the foundations and principles of epidemiology and applied biostatistics as part of the Ph.D. program, students in the Pharmacoepidemiology Option receive specialized training in pharmacoepidemiology, including advanced pharmacoepidemiologic methods, pharmacology for pharmacoepidemiologists, and practical experience in pharmacoepidemiology through their doctoral thesis. Graduates will be prepared to engage in scientific collaboration, and communicate results to other scientists and diverse audiences. They will go on to careers in pharmacoepidemiology in public, private, and academic settings. With a world-renowned reputation for excellence in pharmacoepidemiology, McGill-trained pharmacoepidemiologists are known for methodological and quantitative rigour, and quantitative analytic independence.

**section 10.11.7.4.12: Doctor of Philosophy (Ph.D.) Epidemiology: Population Dynamics**

The Population Dynamics Option (PDO) is a cross-disciplinary, cross-faculty graduate program offered by the Centre on Population Dynamics (CPD) as an option within existing master’s and doctoral programs in the Departments of Sociology, Economics, and Epidemiology, Biostatistics and Occupational Health (EBOH) at McGill University. Students who have been admitted through their home department or faculty may apply for admission to the option. The option is coordinated by the CPD, in partnership with participating academic units.

Thus, in addition to the rigorous training provided in the Department of EBOH, graduate students who choose this option become Centre on Population Dynamics (CPD) student trainees. This affiliation offers opportunities for interdisciplinary research and supervision. The option also provides a forum whereby students bring their disciplinary perspectives together and enrich each other’s learning through structured courses, a weekly seminar series, and informal discussions and networking.

With interdisciplinary research being increasingly important to understanding complex social and biological processes, CPD student trainees benefit from both a strong disciplinary foundation from their departmental affiliations, as well as from the sharing of knowledge across disciplinary boundaries through CPD activities.

### 10.11.7.4.1 Public Health

The Department offers a Master of Science in Public Health. Students apply the methods they learn to the study of diseases, clinical research, health services research, public health, program planning and evaluation, and policy development. Our faculty members are at the forefront of research in epidemiology, biostatistics, clinical medicine, biomedical informatics, public health, health economics, medical sociology, and health geography.

Faculty members in the Department draw on extensive contacts in the public health community locally, nationally, and internationally to facilitate practicum placements in many areas, including:

- urban public health practice;
- clinical and public health informatics;
- environmental and occupational health;
- health care delivery and organization;
- infectious diseases;
- maternal and child health;
- aboriginal health;
- global health.

Graduates are highly sought after for careers in government agencies, NGOs, clinical settings, research, and industry.

**section 10.11.7.4.6: Master of Science (M.Sc.) Public Health (Non-Thesis) (60 credits)**

The mission of the Master of Science in Public Health is to train outstanding public health professionals and future leaders by offering a rigorous academic program in methods, research, and practice. This program may be of interest for students from the natural or quantitative sciences (e.g., microbiology, computer science, statistics, economics, geography), social sciences (e.g., sociology, psychology, anthropology), or the health professions (e.g., medicine, nursing, social work, physical and occupational therapy, nutrition). Through a core series of courses, a wide range of electives, and a practicum, students will acquire knowledge and skills in all the core competencies of public health, including public health sciences; assessment and analysis; policy and program planning, implementation and evaluation. Graduates of the program will serve as public health practitioners or research professionals and will possess the competencies and professionalism to carry out broad public health functions in local, provincial, national, and international settings. In exceptional circumstances, the Admissions Committee may take professional experience into account for mid-career or returning/re-entry applicants.

The Master of Science in Public Health program includes a 14–16 week field-based practicum after the first year, which will provide the student with the opportunity to use knowledge and skills acquired in the academic program in a public health practice or research setting.

**section 10.11.7.4.7: Master of Science (M.Sc.) Public Health (Non-Thesis): Global Health (60 credits)**

Students admitted to the M.Sc. degree in Public Health who have an interest in global health can receive additional recognition for completing the Global Health Option within their degree program. Students in the Global Health Option will undertake global health-dedicated coursework and the M.Sc. Public Health practicum requirement would be related to global health. This additional global health training will provide students with insight into the major global health challenges of today's world. For additional information, visit [www.mcgill.ca/globalhealth](http://www.mcgill.ca/globalhealth).
section 10.11.7.4: Master of Science (M.Sc.) Public Health (Non-Thesis): Population Dynamics (60 credits)

The Population Dynamics Option (PDO) is a cross-disciplinary, cross-faculty graduate program offered by the Centre on Population Dynamics (CPD) as an option within existing master's and doctoral programs in the Departments of Sociology, Economics, and Epidemiology, Biostatistics and Occupational Health (EBOH) at McGill University. Students who have been admitted through their home department or faculty may apply for admission to the option. The option is coordinated by the CPD, in partnership with participating academic units.

Thus, in addition to the rigorous training provided in the Department of EBOH, graduate students who choose this option become Centre on Population Dynamics (CPD) student trainees. This affiliation notably offers opportunities for interdisciplinary research and supervision. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, a weekly seminar series, and informal discussions and networking.

With interdisciplinary research being increasingly important to understanding complex social and biological processes, CPD student trainees benefit from both a strong disciplinary foundation from their departmental affiliations, as well as from the sharing of knowledge across disciplinary boundaries through CPD activities.

10.11.7.42 Epidemiology & Public Health Admission Requirements and Application Procedures

1011.7421 Admission Requirements

The graduate programs in Epidemiology (M.Sc. and Ph.D.) and Public Health (M.Sc.) require substantial quantitative skills. The Admission Committees for these programs will look for proof of quantitative proficiency such as good grades in undergraduate-level courses in differential or integral calculus or in statistics (for M.Sc. applicants) and in masters-level courses (for Ph.D. applicants).

The GRE is required of candidates who are health professional graduates from universities outside North America.

Master's in Epidemiology

Applicants to the M.Sc. in Epidemiology programs must hold a bachelor's degree in a related area.

Master's of Public Health

Applicants to the Master's of Public Health programs must hold a bachelor's degree. Experience in this field is an asset.

Ph.D.

Applicants to Ph.D. programs must hold a master's degree in Epidemiology or its equivalent. In addition to the Ph.D. requirements, applicants admitted to the Ph.D. degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, as determined by the Department.

Complete details on the Epidemiology programs are available on our Departmental website. Information on the Master's of Public Health programs is available here.

Language Requirement

Minimum TOEFL scores required, when applicable, of 100 on the Internet-based test. Minimum score for IELTS: 6.5.

Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Completed applications, with all supporting documents, must be uploaded directly to the McGill admissions processing system by the application deadlines. Please see our website, www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying, for information on required documents.

Additional Requirements

Please consult www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying for information on our requirements.

Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Epidemiology, Biostatistics, and Occupational Health and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
</tbody>
</table>

FACULTY OF MEDICINE
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**10.11.743 Master of Science (M.Sc.) Epidemiology (Thesis) (48 credits)**

Students will study the foundations and principles of epidemiology and applied biostatistics, in order to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological health-related research. Graduates will be prepared to engage in scientific collaboration, and communicate results to other scientists and diverse audiences.

**Thesis Course (24 credits)**

EPIB 690 (24) M.Sc. Thesis

**Required Courses (21 credits)**

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

- EPIB 601 (4) Fundamentals of Epidemiology
- EPIB 603 (4) Intermediate Epidemiology
- EPIB 605 (1) Critical Appraisal in Epidemiology
- EPIB 607 (4) Inferential Statistics
- EPIB 613 (1) Introduction to Statistical Software
- EPIB 621 (4) Data Analysis in Health Sciences
- PPHS 602 (3) Foundations of Population Health

**Complementary Course (3 credits)**

3 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

**10.11.744 Master of Science (M.Sc.) Epidemiology (Non-Thesis): Environmental & Occupational Health (48 credits)**

This program provides in-depth training for graduate students in methods used in Environmental and Occupational Health (EOH) and the application of these methods to study the effects of environmental and occupational exposures on human health. Students will be provided with tools to critically evaluate studies in EOH, as well as to be able to participate in these studies, learn how to apply specific methods to environmental and occupational problems, and understand how to apply research results to public health or policy. Career opportunities exist in academia, industry, and the public health sectors. Each student will be assigned a supervisor to provide guidance for their project. Research topics must be related to environmental and occupational health and approved by the program coordinating committee.

**Research (12 credits)**

EPIB 691 (12) Research Project in Epidemiology

**Required Courses (30 credits)**

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

- EPIB 601 (4) Fundamentals of Epidemiology
- EPIB 603 (4) Intermediate Epidemiology
- EPIB 605 (1) Critical Appraisal in Epidemiology
- EPIB 607 (4) Inferential Statistics
- EPIB 613 (1) Introduction to Statistical Software
- EPIB 621 (4) Data Analysis in Health Sciences
- EPIB 684 (3) Principles of Environmental Health Sciences 1
- EPIB 685 (3) Principles of Environmental Health Sciences 2

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<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Term: N/A</td>
<td>N/A</td>
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</table>

2018-2019, Graduate and Postdoctoral Studies, McGill University (Published March 16, 2018)
Complementary Courses (6 credits)
6 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Complementary courses are meant to further the student's general knowledge in environment, environmental health, methodologies, and related aspects to a student's project.

10.11.7.45 Master of Science (M.Sc.) Epidemiology (Non-Thesis): Pharmacoepidemiology (48 credits)
This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will develop knowledge and capacity to critically evaluate pharmacoepidemiologic studies, learn how to apply specific methods and understand how to apply research results for knowledge translation or policy purpose. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Research (12 credits)
EPIB 691 (12) Research Project in Epidemiology

Required Courses (25 credits)
Students exempted from any of the courses listed below must replace them with additional complementary course credits at the 500 level or higher.
EPIB 601 (4) Fundamentals of Epidemiology
EPIB 603 (4) Intermediate Epidemiology
EPIB 605 (1) Critical Appraisal in Epidemiology
EPIB 607 (4) Inferential Statistics
EPIB 613 (1) Introduction to Statistical Software
EPIB 621 (4) Data Analysis in Health Sciences
EPIB 634 (3) Fundamentals of Pharmacoepidemiology
EPIB 662 (1) Pharmacological Basis of Pharmacoepidemiology
PPHS 602 (3) Foundations of Population Health

Complementary Courses (11 credits)
11 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Courses must be approved by the program's academic adviser.

10.11.7.46 Master of Science (M.Sc.) Public Health (Non-Thesis) (60 credits)
Students will study the foundations and principles of epidemiology and biostatistics as applied to public health research and practice in order to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological public health-related research. The program will include a three-month practicum after the first year.

Practicum/Project (9 credits)
PPHS 630 (9) MScPH Practicum/Project

Required Courses (30 credits)
Students exempted from any of the courses listed below must replace them with additional complementary course credits.
EPIB 601 (4) Fundamentals of Epidemiology
EPIB 603 (4) Intermediate Epidemiology
EPIB 605 (1) Critical Appraisal in Epidemiology
EPIB 607 (4) Inferential Statistics
EPIB 613 (1) Introduction to Statistical Software
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 621</td>
<td>4</td>
<td>Data Analysis in Health Sciences</td>
</tr>
<tr>
<td>PPHS 602</td>
<td>3</td>
<td>Foundations of Population Health</td>
</tr>
<tr>
<td>PPHS 612</td>
<td>3</td>
<td>Principles of Public Health Practice</td>
</tr>
<tr>
<td>PPHS 629D1</td>
<td>1</td>
<td>MScPH Forum 1</td>
</tr>
<tr>
<td>PPHS 629D2</td>
<td>1</td>
<td>MScPH Forum 1</td>
</tr>
<tr>
<td>PPHS 631*</td>
<td>4</td>
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<td>PPHS 631D1</td>
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<tr>
<td>PPHS 631D2</td>
<td>2</td>
<td>MScPH Forum 2</td>
</tr>
</tbody>
</table>

* with departmental permission only.

**Complementary Courses (12 credits)**

12 credits of coursework at the 500 level or higher, with a minimum of 3 credits chosen from each of the following fields:

**Environmental Health Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 503</td>
<td>3</td>
<td>Advanced Topics in Health Geography</td>
</tr>
<tr>
<td>OCCH 602</td>
<td>3</td>
<td>Occupational Health Practice</td>
</tr>
<tr>
<td>PPHS 529</td>
<td>3</td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

**Health Services Research Policy and Management**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td>3</td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 528</td>
<td>3</td>
<td>Economic Evaluation of Health Programs</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

**Population and Public Health Interventions (social and behavioural science)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 624</td>
<td>3</td>
<td>Public Health Ethics and Policy</td>
</tr>
<tr>
<td>SOCI 515</td>
<td>3</td>
<td>Medicine and Society</td>
</tr>
<tr>
<td>SOCI 588</td>
<td>3</td>
<td>Biosociology/Biodemography</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

**Field Epidemiology or Epidemiology in Practice**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>OCCH 604</td>
<td>3</td>
<td>Monitoring Occupational Environment</td>
</tr>
<tr>
<td>PPHS 615</td>
<td>3</td>
<td>Introduction to Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>PPHS 616</td>
<td>3</td>
<td>Principles and Practice of Public Health Surveillance</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

**Electives (9 credits)**

9 credits of coursework, at the 500 level or higher.

Students may choose to focus on more advanced methods in epidemiology, biostatistics, geography, etc. or substantive areas such as environmental or occupational health, or to select a variety of courses that will deepen their general knowledge of the disciplines that influence population and public health. Courses will be selected with and approved by the Program's Academic Adviser.
Master of Science (M.Sc.) Public Health (Non-Thesis): Global Health (60 credits)

This option will provide enhanced training in global health to graduate students registered in the M.Sc. Public Health degree program at McGill. Students will become familiar with topics of global health relevance and incorporate this into their core coursework and practicum or project research. The practicum or research project must be relevant to global health, conducted in a global health setting, and approved by the Global Health Coordinating Committee. Contextualizing the core training students receive in public health and in their respective substantive disciplines within the global health research domain will enhance their academic experience. Graduates of this option will be prepared to pursue further training in global health or to undertake a variety of career opportunities in global health in Canada or internationally.

Practicum/Project (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 630</td>
<td>9</td>
<td>MScPH Practicum/Project</td>
</tr>
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</table>

Required Courses (33 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>EPIB 601</td>
<td>4</td>
<td>Fundamentals of Epidemiology</td>
</tr>
<tr>
<td>EPIB 603</td>
<td>4</td>
<td>Intermediate Epidemiology</td>
</tr>
<tr>
<td>EPIB 605</td>
<td>1</td>
<td>Critical Appraisal in Epidemiology</td>
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<tr>
<td>EPIB 607</td>
<td>4</td>
<td>Inferential Statistics</td>
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<td>EPIB 613</td>
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<td>Introduction to Statistical Software</td>
</tr>
<tr>
<td>EPIB 621</td>
<td>4</td>
<td>Data Analysis in Health Sciences</td>
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<tr>
<td>PPHS 511</td>
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<td>Fundamentals of Global Health</td>
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<tr>
<td>PPHS 602</td>
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<td>Foundations of Population Health</td>
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<tr>
<td>PPHS 612</td>
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</tr>
<tr>
<td>PPHS 631D2</td>
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<td>MScPH Forum 2</td>
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</table>

Complementary Courses (18 credits)

12 credits of coursework at the 500 level or higher, with a minimum of 2 credits chosen from each of the following fields:

Environmental Health Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 503</td>
<td>3</td>
<td>Advanced Topics in Health Geography</td>
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<tr>
<td>OCCH 602</td>
<td>3</td>
<td>Occupational Health Practice</td>
</tr>
<tr>
<td>PPHS 529</td>
<td>3</td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Health Services Research Policy and Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td>3</td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 528</td>
<td>3</td>
<td>Economic Evaluation of Health Programs</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Population and Public Health Interventions (social and behavioural science)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 624</td>
<td>3</td>
<td>Public Health Ethics and Policy</td>
</tr>
</tbody>
</table>
The Population Dynamics Option (PDO) is open to students in the M.Sc. in Public Health; Non-Thesis program in the Department of Epidemiology, Biostatistics, and Occupational Health specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. Students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course from Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research topics must be related to population dynamics and approved by the PDO coordinating committee.

Practicum/Project (9 credits)

PPHS 630  (9)  MScPH Practicum/Project

Required Courses (36 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

PPHS 602  (3)  Foundations of Population Health
PPHS 612  (3)  Principles of Public Health Practice
PPHS 629D1  (1)  MScPH Forum 1
PPHS 629D2  (1)  MScPH Forum 1
PPHS 631D1  (2)  MScPH Forum 2
PPHS 631D2  (2)  MScPH Forum 2
SOCI 545  (3)  Sociology of Population
SOCI 626  (3)  Demographic Methods

Complementary Courses (15 credits)

12 credits of coursework at the 500 level or higher, with a minimum of 2 credits chosen from each of the following fields:
### Environmental Health Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 503</td>
<td></td>
<td>Advanced Topics in Health Geography</td>
</tr>
<tr>
<td>OCCH 602</td>
<td></td>
<td>Occupational Health Practice</td>
</tr>
<tr>
<td>PPHS 529</td>
<td></td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, to be selected with the program's academic adviser.

### Health Services Research Policy & Management

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td></td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td></td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 528</td>
<td></td>
<td>Economic Evaluation of Health Programs</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, to be selected with the program's academic adviser.

### Population and Public Health Interventions (social and behavioural science)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPHS 525</td>
<td></td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 624</td>
<td></td>
<td>Public Health Ethics and Policy</td>
</tr>
<tr>
<td>SOCI 515</td>
<td></td>
<td>Medicine and Society</td>
</tr>
<tr>
<td>SOCI 588</td>
<td></td>
<td>Biosociology/Biodemography</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, to be selected with the program's academic adviser.

### Field Epidemiology or Epidemiology in Practice

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCH 604</td>
<td></td>
<td>Monitoring Occupational Environment</td>
</tr>
<tr>
<td>PPHS 615</td>
<td></td>
<td>Introduction to Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>PPHS 616</td>
<td></td>
<td>Principles and Practice of Public Health Surveillance</td>
</tr>
</tbody>
</table>

Or other courses, at the 500 level or higher, to be selected with the program's academic adviser.

3 credits of coursework, at the 500 level or higher, from the list of courses approved for the Population Dynamics Option that have not been taken to satisfy other program requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 622</td>
<td></td>
<td>Public Finance</td>
</tr>
<tr>
<td>ECON 634</td>
<td></td>
<td>Economic Development 3</td>
</tr>
<tr>
<td>ECON 641</td>
<td></td>
<td>Labour Economics</td>
</tr>
<tr>
<td>ECON 734</td>
<td></td>
<td>Economic Development 4</td>
</tr>
<tr>
<td>ECON 741</td>
<td></td>
<td>Advanced Labour Economics</td>
</tr>
<tr>
<td>ECON 742</td>
<td></td>
<td>Empirical Microeconomics</td>
</tr>
<tr>
<td>ECON 744</td>
<td></td>
<td>Health Economics</td>
</tr>
<tr>
<td>EPIB 648</td>
<td></td>
<td>Methods in Social Epidemiology</td>
</tr>
<tr>
<td>EPIB 681</td>
<td></td>
<td>Global Health: Epidemiological Research</td>
</tr>
<tr>
<td>PPHS 525</td>
<td></td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td></td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 528</td>
<td></td>
<td>Economic Evaluation of Health Programs</td>
</tr>
<tr>
<td>PPHS 529</td>
<td></td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
<tr>
<td>PPHS 615</td>
<td></td>
<td>Introduction to Infectious Disease Epidemiology</td>
</tr>
<tr>
<td>SOCI 502</td>
<td></td>
<td>Sociology of Fertility</td>
</tr>
</tbody>
</table>
**10.11.7.49 Doctor of Philosophy (Ph.D.) Epidemiology**

Epidemiology is the study and analysis of the patterns and causes of disease in human populations. It forms the core discipline of public health by identifying excess illness and by gaining the etiologic understanding to intervene toward the improvement of population health. The Ph.D. program in epidemiology at McGill trains scientists and health professionals to design and conduct studies, analyze health data and effectively communicate scientific results, and to gain novel insights into the causes and prevention of diseases at the population level. Epidemiologic work at the doctoral level involves a thorough integration of biological knowledge of pathogenesis, statistical knowledge of quantitative analysis and causal inference, and sociological knowledge to place these insights in the context of dynamic and interconnected human populations. Major areas of strength at McGill include epidemiologic methods, clinical epidemiology, infectious diseases, social epidemiology, pharmacoepidemiology, public and population health, global health, environmental epidemiology, chronic diseases and aging, and perinatal epidemiology.

Students admitted to the Ph.D. degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 25 credits of Ph.D. courses.

In addition to the Ph.D. requirements, students admitted to the Ph.D. degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, excluding thesis research course(s), as determined by the Department.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (16 credits)**

- EPIB 701 (0) Ph.D. Comprehensive Examination
- EPIB 702 (0) Ph.D. Proposal
- EPIB 703 (2) Principles of Study Design
- EPIB 704 (4) Doctoral Level Epidemiologic Methods 1
- EPIB 705 (4) Doctoral Level Epidemiologic Methods 2
- EPIB 706 (3) Doctoral Seminar in Epidemiology
- EPIB 707 (3) Research Design in Health Sciences

**Complementary Courses (9 credits)**

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics, 3 credits in a substantive topic (normally related to the thesis topic), and 3 credits in epidemiology. Courses must be chosen in consultation with the student’s supervisor and/or the degree program’s director or adviser.

**10.11.7.40 Doctor of Philosophy (Ph.D.) Epidemiology: Global Health**

This option will provide enhanced training in global health to graduate students registered in the Ph.D. in Epidemiology; Global Health degree program at McGill. Students will become familiar with topics of global health relevance and incorporate this into their core coursework and thesis research. The thesis must be relevant to global health and approved by the Global Health Coordinating Committee. Contextualizing the core training students receive in epidemiology and in their respective substantive discipline within the global health research domain will enhance their academic experience. Graduates of this option will be prepared to pursue further training in global health or to undertake a variety of career opportunities in global health in Canada or internationally.

Students admitted to the Ph.D. in Epidemiology; Global Health degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 31 credits of Ph.D. courses.

In addition to the Ph.D. requirements, students admitted to the Ph.D. in Epidemiology; Global Health degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, excluding thesis course(s), as determined by the Department.
Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain. The thesis must be relevant to global health and approved by the Global Health Coordinating Committee.

Required Courses (22 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 623</td>
<td>(3)</td>
<td>Research Design in Health Sciences</td>
</tr>
<tr>
<td>EPIB 681</td>
<td>(3)</td>
<td>Global Health: Epidemiological Research</td>
</tr>
<tr>
<td>EPIB 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>EPIB 702</td>
<td>(0)</td>
<td>Ph.D. Proposal</td>
</tr>
<tr>
<td>EPIB 703</td>
<td>(2)</td>
<td>Principles of Study Design</td>
</tr>
<tr>
<td>EPIB 704</td>
<td>(4)</td>
<td>Doctoral Level Epidemiologic Methods 1</td>
</tr>
<tr>
<td>EPIB 705</td>
<td>(4)</td>
<td>Doctoral Level Epidemiologic Methods 2</td>
</tr>
<tr>
<td>EPIB 706</td>
<td>(3)</td>
<td>Doctoral Seminar in Epidemiology</td>
</tr>
<tr>
<td>EPIB 707</td>
<td>(3)</td>
<td>Research Design in Health Sciences</td>
</tr>
<tr>
<td>PPHS 511</td>
<td>(3)</td>
<td>Fundamentals of Global Health</td>
</tr>
</tbody>
</table>

Complementary Courses (9 credits)

6 credits of coursework at the 500 level or higher, with a minimum of 3 credits in biostatistics, and 3 credits in epidemiology. Courses must be chosen in consultation with the student's supervisor and/or the degree program's director or adviser.

3 credits of coursework at the 500 level or higher from this list, or any other course approved by the Global Health Option Committee that have not been taken to satisfy other program requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 503</td>
<td>(3)</td>
<td>Advanced Topics in Health Geography</td>
</tr>
<tr>
<td>NUTR 501</td>
<td>(3)</td>
<td>Nutrition in Developing Countries</td>
</tr>
<tr>
<td>PPHS 525</td>
<td>(3)</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>PPHS 527</td>
<td>(3)</td>
<td>Economics for Health Services Research and Policy</td>
</tr>
<tr>
<td>PPHS 529</td>
<td>(3)</td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
<tr>
<td>SOCI 513</td>
<td>(3)</td>
<td>Social Aspects HIV/AIDS in Africa</td>
</tr>
<tr>
<td>SOCI 519</td>
<td>(3)</td>
<td>Gender and Globalization</td>
</tr>
<tr>
<td>SOCI 545</td>
<td>(3)</td>
<td>Sociology of Population</td>
</tr>
</tbody>
</table>

10117411 Doctor of Philosophy (Ph.D.) Epidemiology: Pharmacoepidemiology

This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will acquire the skills to become independent investigators and conduct original research in pharmacoepidemiology. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Students admitted to the Ph.D. in Epidemiology; Pharmacoepidemiology degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 28 credits of Ph.D. courses.

In addition to the Ph.D. requirements, students admitted to the Ph.D. degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, excluding thesis course(s), as determined by the Department.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.
The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (25 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 623</td>
<td>3</td>
<td>Research Design in Health Sciences</td>
</tr>
<tr>
<td>EPIB 639</td>
<td>4</td>
<td>Pharmacoepidemiologic Methods</td>
</tr>
<tr>
<td>EPIB 654</td>
<td>2</td>
<td>Pharmacoepidemiology 4</td>
</tr>
<tr>
<td>EPIB 661</td>
<td>2</td>
<td>Pharmacoepidemiology 3</td>
</tr>
<tr>
<td>EPIB 662</td>
<td>1</td>
<td>Pharmacological Basis of Pharmacoepidemiology</td>
</tr>
<tr>
<td>EPIB 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>EPIB 702</td>
<td>0</td>
<td>Ph.D. Proposal</td>
</tr>
<tr>
<td>EPIB 703</td>
<td>2</td>
<td>Principles of Study Design</td>
</tr>
<tr>
<td>EPIB 704</td>
<td>4</td>
<td>Doctoral Level Epidemiologic Methods 1</td>
</tr>
<tr>
<td>EPIB 705</td>
<td>4</td>
<td>Doctoral Level Epidemiologic Methods 2</td>
</tr>
<tr>
<td>EPIB 706</td>
<td>3</td>
<td>Doctoral Seminar in Epidemiology</td>
</tr>
<tr>
<td>EPIB 707</td>
<td>3</td>
<td>Research Design in Health Sciences</td>
</tr>
</tbody>
</table>

**Complementary Courses (3 credits)**

3 credits of coursework in biostatistics at the 500 level or higher. Courses must be chosen in consultation with the student’s supervisor and/or the degree program’s director or adviser.

**10.11.7.4.12 Doctor of Philosophy (Ph.D.) Epidemiology: Population Dynamics**

Students admitted to the Ph.D. in Epidemiology; Population Dynamics degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 31 credits of Ph.D. courses.

In addition to the Ph.D. requirements, students admitted to the Ph.D. in Epidemiology; Population Dynamics degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, excluding thesis research course(s), as determined by the Department.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (22 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>EPIB 702</td>
<td>0</td>
<td>Ph.D. Proposal</td>
</tr>
<tr>
<td>EPIB 703</td>
<td>2</td>
<td>Principles of Study Design</td>
</tr>
<tr>
<td>EPIB 704</td>
<td>4</td>
<td>Doctoral Level Epidemiologic Methods 1</td>
</tr>
<tr>
<td>EPIB 705</td>
<td>4</td>
<td>Doctoral Level Epidemiologic Methods 2</td>
</tr>
<tr>
<td>EPIB 706</td>
<td>3</td>
<td>Doctoral Seminar in Epidemiology</td>
</tr>
<tr>
<td>EPIB 707</td>
<td>3</td>
<td>Research Design in Health Sciences</td>
</tr>
<tr>
<td>SOCI 545</td>
<td>3</td>
<td>Sociology of Population</td>
</tr>
<tr>
<td>SOCI 626</td>
<td>3</td>
<td>Demographic Methods</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics, 3 credits in epidemiology, and 3 credits from courses approved for the Population Dynamics Option from the list below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 622</td>
<td>3</td>
<td>Public Finance</td>
</tr>
</tbody>
</table>
Courses must be chosen in consultation with the student's supervisor and/or the degree program's director or adviser.

### 10.11.7.5 Biostatistics

Biostatistics involves the development and application of statistical methods to scientific research in areas such as medicine, epidemiology, public health, occupational and environmental health, genetics, and ecology. Biostatisticians play key roles in designing studies—from helping to formulate the questions that can be answered by data collection to the decisions on how best to collect the data—and in analyzing the resulting data. Our biostatistics faculty work in close collaboration with epidemiologists, clinicians, public health specialists, basic scientists, and other health researchers. They also develop new statistical methods for such data. Students will take courses, and may do research, on topics such as:

- generalized linear models;
- longitudinal data;
- mathematical statistics;
- causal inference;
- statistical methods for epidemiology;
- survival analysis.

The Department of Epidemiology, Biostatistics, and Occupational Health has one of the largest concentrations of Ph.D.-level statisticians in health sciences in any Canadian university. Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

#### section 10.11.7.5.2: Master of Science (M.Sc.) Biostatistics (Thesis) (48 credits)

M.Sc. Thesis students study a foundational set of courses, and write a thesis on a topic of their choice. Thesis students should have a strong interest in research. These students are well-placed to either continue in a Ph.D. program or to work in academic research in statistics or medicine; they will also have relevant qualifications for the pharmaceutical industry and government.

#### section 10.11.7.5.3: Master of Science (M.Sc.) Biostatistics (Non-Thesis) (48 credits)

The M.Sc. Non-Thesis program is designed to expose students to a wide range of topics including statistical methods for epidemiology, generalized linear models, survival analysis, longitudinal data, and clinical trials. Skills in data analysis, statistical consulting, communication, and report writing are emphasized, and students graduate ready to work in the pharmaceutical and biotechnology industries, in government, or in academic medical research.
section 10.11.7.5.4: Doctor of Philosophy (Ph.D.) Biostatistics

Applicants should hold a master’s degree in statistics or biostatistics. Previous coursework in calculus, linear algebra, real analysis, and mathematical statistics is essential. Exposure to data analysis is an asset. Ph.D. students typically work on development of statistical methods, and can specialize in statistical methods for epidemiology, generalized linear models, Bayesian methods, survival analysis, longitudinal data, causal inference, or other topics. Skills in data analysis, statistical consulting, and report writing are emphasized. Ph.D. graduates typically work as faculty in universities, in research institutes, in government, or in the pharmaceutical industry.

10.11.7.5.1 Biostatistics Admission Requirements and Application Procedures

10.11.7.5.1.1 Admission Requirements

An undergraduate degree in mathematics or statistics or its equivalent (an honours degree is preferred, but not required). At least three semesters of calculus; two semesters of linear algebra; at least one (but preferably two) semesters of real analysis; and a full-year course/sequence in mathematical statistics, preferably at an honours level, e.g., MATH 356/MATH 357. Exposure to data analysis is an asset.

M.Sc.

Students admitted into the M.Sc. program will, in general, meet the requirements above.

Ph.D.

Students with the above qualifications, in addition to an M.Sc. degree in Statistics or Biostatistics, will be considered for Ph.D. admission.

Complete details on the Biostatistics programs are available on our departmental website at www.mcgill.ca/epi-biostat-occh/academic-programs/grad/biostatistics.

Language Requirement

The minimum TOEFL score required, when applicable, is 100 on the Internet-based test. The minimum score for IELTS is 6.5.

10.11.7.5.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Completed applications, with all supporting documents, must be uploaded directly to the McGill graduate admissions system by the application deadlines. Please see our website at www.mcgill.ca/epi-biostat-occh/academic-programs/grad/biostatistics/applying for information on required application documents.

10.11.7.5.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Epidemiology, Biostatistics, and Occupational Health and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>All Applicants</th>
<th>Non-Canadian citizens</th>
<th>Canadian citizens/Perm. residents of Canada</th>
<th>Current McGill Students (any citizenship)</th>
<th>Special, Visiting &amp; Exchange Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>Dec. 15</td>
<td>Dec. 15</td>
<td>Dec. 15</td>
<td>April 30</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Sept. 10</td>
</tr>
<tr>
<td>Summer Term:</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; late and/or incomplete applications will not be considered.

10.11.7.5.2 Master of Science (M.Sc.) Biostatistics (Thesis) (48 credits)

Training in statistical theory and methods, applied data analysis, scientific collaboration, communication, and report writing by coursework and thesis.

Thesis Courses (24 credits)

BIOS 690 (24) M.Sc. Thesis

Required Courses (24 credits)

Students exempted from any of the courses listed below must replace them with complementary course credits, at the 500 level or higher, chosen in consultation with the student’s academic adviser or supervisor.
Epidemiology: Introduction and statistical models (4)
Epidemiology: Regression Models (4)
Generalized Linear Models (4)
Honours Regression and Analysis of Variance (4)
Mathematical Statistics 1 (4)
Mathematical Statistics 2 (4)

10.11.7.53 Master of Science (M.Sc.) Biostatistics (Non-Thesis) (48 credits)
Training in statistical theory and methods, applied data analysis, scientific collaboration, communication, and report writing by coursework and project.

Research Project (6 credits)
BIOS 630 (6) Research Project/Practicum in Biostatistics

Required Courses (24 credits)
Students exempted from any of the courses listed below must replace them with additional complementary course credits.

BIOS 601 (4) Epidemiology: Introduction and statistical models
BIOS 602 (4) Epidemiology: Regression Models
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)
18 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

10.11.7.54 Doctor of Philosophy (Ph.D.) Biostatistics
Students will study theoretical and applied statistics and related fields; the program will train them to become independent scientists able to develop and apply statistical methods in medicine and biology and make original contributions to the theoretical and scientific foundations of statistics in these disciplines. Graduates will be prepared to develop new statistical methods as needed and apply new and existing methods in a range of collaborative projects. Graduates will be able to communicate methods and results to collaborators and other audiences, and teach biostatistics to biostatistics students, students in related fields, and professionals in academic and other settings.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
BIOS 700 (0) Ph.D. Comprehensive Examination Part A
BIOS 701 (0) Ph.D. Comprehensive Examination Part B
BIOS 702 (0) Ph.D. Proposal

Complementary Courses (46 credits)
0-28 credits from the following list: (if a student has not already successfully completed them or their equivalent)

BIOS 601 (4) Epidemiology: Introduction and statistical models
BIOS 602 (4) Epidemiology: Regression Models
BIOS 624 (4) Data Analysis & Report Writing
12 credits (chosen and approved in consultation with the student's academic adviser), at the 500 level or higher, in statistics/biostatistics.

6 credits (chosen and approved in consultation with the student's academic adviser), at the 500 level or higher, in related fields (e.g., epidemiology, social sciences, biomedical sciences).

10.11.8 Experimental Medicine

Please see section 10.11.12: Medicine, Experimental for more information.

10.11.9 Family Medicine

Please see section 10.11.13: Medicine, Family for more information.

10.11.10 Human Genetics

10.11.10.1 Location

Department of Human Genetics
Strathcona Anatomy & Dentistry Building
3640 University Street, Room W-315
Montreal QC H3A 0C7
Canada
Telephone: 514-398-4198
Fax: 514-398-2430
Email: dept.humangenetics@mcgill.ca
Website: www.mcgill.ca/humangenetics

Administration

Ross MacKay – Student Affairs Advisor
Email: ross.mackay@mcgill.ca

Rimi Joshi – Student Affairs Coordinator
Email: grad.hg@mcgill.ca

10.11.10.2 About Human Genetics

M.Sc. and Ph.D. Degrees in the Department of Human Genetics

The Department of Human Genetics offers a clinical master's program, M.Sc. in Genetic Counselling, as well as research training at both the M.Sc. and Ph.D. levels in Human Genetics. Both the M.Sc. and Ph.D. in Human Genetics research programs require the completion of a thesis, which is the major focus of the student's effort. A minimal amount of coursework is required, but specific course choices are flexible and vary according to the student's previous training and current research interest.

Most of the faculty members of the Human Genetics Department are located in McGill teaching hospitals, reflecting the medically learned knowledge at the core of human genetic studies.

Faculty members have a wide variety of research interests, which embrace:

- cancer genetics;
- cytogenetics;
- reproductive biology;
neurogenetics;
- genomic and genetic basis of human diseases.

Detailed information regarding faculty research interests can be found on the Department website.

The Graduate Training Committee requires that students who have been accepted into the M.Sc. or Ph.D. in Human Genetics research graduate program have a guaranteed minimum stipend of $15,000, plus the full amount of tuition and fees. Detailed information regarding financial matters can be found on the Student Funding webpage.

Tuition Assistance Packages

A certain number of tuition assistance packages will be offered to incoming out-of-province/international students for the M.Sc. or Ph.D. in Human Genetics thesis program who have demonstrated outstanding academic achievement. Students who have a CGPA of 3.5 out of 4.0 or above (as converted by the McGill GPS guidelines) and who submit online application and documents by March 31 (Fall), or Sept. 10 (Winter) will automatically be considered eligible for assistance. Once applications have been received by the deadline, the Graduate Training Committee will review all eligible applications and award tuition assistance to certain top eligible candidates at the time of admission into the program.

section 10.11.10.5: Master of Science (M.Sc.) Human Genetics (Thesis) (45 credits)

The Department of Human Genetics provides a unified curriculum of study in genetics. Areas of specialization include:

- biochemical genetics
- genetics of development
- animal models of human diseases
- cancer genetics
- molecular pathology
- gene therapy
- genetic dissection of complex traits
- genetics of infectious and inflammatory diseases
- non-mendelian genetics
- bioinformatics
- behavioural genetics
- neurogenetics
- bioethics
- genomics

Many of our faculty hold cross-appointments in various departments (including: biochemistry, biology, cardiology, medicine, microbiology, immunology, neurology, pathology, paediatrics, pharmacology, psychiatry) within the Faculties of Science and Medicine. This enables numerous opportunities for interdisciplinary research and collaboration. The Department conducts research on all sites of the McGill University Health Centre (MUHC), the Montreal Neurological Institute and Hospital, the McGill Life Sciences Complex, the McGill University & Genome Quebec Innovation Centre, the Biomedical Ethics Unit, and the Centre for Genomics and Policy.

section 10.11.10.6: Master of Science (M.Sc.) Human Genetics (Thesis): Bioinformatics (45 credits)

This program is currently not offered.

Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field. Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics Option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

Enrolment in the Bioinformatics option can only be approved after a student has been admitted into the Department. There is an agreement for the option that must be signed by the student, supervisor, and Department, and enrolment in the option is subject to space availability and other constraints that the Department cannot assess at the time of admission. For more information, please contact the Graduate Program Coordinator.

section 10.11.10.7: Master of Science (M.Sc.) Human Genetics (Thesis): Bioethics (45 credits)

McGill University offers specialized education in bioethics to graduate students in the Faculties of Medicine, Religious Studies, and Law, and the Department of Philosophy. The Master's degree Specialization in Bioethics is an interdisciplinary academic program that emphasizes both the conceptual and the practical aspects of bioethics.

section 10.11.10.8: Master of Science (M.Sc.) Genetic Counselling (Non-Thesis) (48 credits)

The M.Sc. in Genetic Counselling program provides the academic foundation and clinical training required for the contemporary practice of genetic counselling. Genetic counsellors are health professionals who provide information and support to families who have members with birth defects or genetic disorders and to families who may be at risk for a variety of inherited conditions. Genetic counsellors investigate the problem present in the family, analyze
section 10.11.10.8: Master of Science (M.Sc.) Genetic Counselling (Non-Thesis) (48 credits)

inheritance patterns and risks of recurrence, and review available options with the family. Some counsellors also work in administrative and academic capacities, and many engage in research activities.

The curriculum includes a variety of required courses in human genetics and other departments, and 40 weeks of supervised clinical training spread over four semesters. Graduates will be eligible to sit for both the Canadian Association of Genetic Counsellors and the American Board of Genetic Counselling certification examinations. Upon completion of the M.Sc. in Genetic Counselling program, students will demonstrate competence in, or satisfactory knowledge of: principles of human genetics, including cytogenetics, biochemical, molecular, and population genetics; methods of interviewing and counselling, and the dynamics of human behaviour in relation to genetic disease; and social, legal, and ethical issues in genetics. Enrolment will be limited to four students.

section 10.11.10.9: Doctor of Philosophy (Ph.D.) Human Genetics

The Department of Human Genetics provides a unified curriculum of study in genetics. Areas of specialization include: biochemical genetics, genetics of development, animal models of human diseases, cancer genetics, molecular pathology, gene therapy, genetic dissection of complex traits, genetics of infectious and inflammatory diseases, non-mendelian genetics, bioinformatics, behavioural genetics, neurogenetics, bioethics, and genomics. Many of our faculty hold cross-appointments in various departments (including: biochemistry, biology, cardiology, medicine, microbiology, immunology, pathology, paediatrics, pharmacology, psychiatry) within the Faculties of Science and Medicine. This enables numerous opportunities for interdisciplinary research and collaboration. The Department conducts research on all sites of the McGill University Health Centre (MUHC), the Montreal Neurological Institute and Hospital, the McGill Life Sciences Complex, the McGill University & Genome Quebec Innovation Centre, the Biomedical Ethics Unit, and the Centre for Genomics and Policy.

section 10.11.10.10: Doctor of Philosophy (Ph.D.) Human Genetics: Bioinformatics

This program is currently not offered.

Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field and have the capability of developing an independent Bioinformatics research program. Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

Enrolment in the Bioinformatics option can only be approved after a student has been admitted into the Department. There is an agreement for the option that must be signed by the student, supervisor, and Department, and enrolment in the option is subject to space availability and other constraints that the Department cannot assess at the time of admission. For more information, please contact the Graduate Program Coordinator.

10.11.10.3 Human Genetics Admission Requirements and Application Procedures

M.Sc. in Genetic Counselling

Prerequisites:

- Bachelor's or medical degree – minimum cumulative grade point average (CGPA) of 3.0 out of 4.0, or 3.2 out of 4.0 in the last two full-time academic years;
- Recent (within the past five years) university-level courses in molecular/cell biology, biochemistry, advanced genetics (preferably human), statistics, and a minimum of two courses in psychology;
- Some experience (either paid or volunteer) working with adults in a counselling or advisory capacity, ideally in a crisis setting.

For detailed information, visit the Genetic Counselling Program website.

M.Sc. and Ph.D. in Human Genetics

Prerequisites:

- B.Sc. – minimum CGPA of 3.2 out of 4.0;
- A minimum of 6 credits in cellular and molecular biology or biochemistry, 3 credits in mathematics or statistics, and 3 credits in genetics.

Admission is based on acceptance by a research supervisor, confirmed funding for the duration of the academic program, and an online application form evaluated by the Graduate Training Committee.

Prospective graduate students should complete the online application form and indicate the name of the secured research supervisor.

For detailed information, visit the Human Genetics program website.

Language Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit a TOEFL.
or IELTS test score to McGill University. Minimum scores of 600 on the TOEFL paper-based test, 250 on the computer-based test or 100 on the Internet-based test are required. Each component or subsection score requires a minimum score of 20. On the IELTS the minimum standard for consideration is 7.

**Note:** TOEFL scores must be sent electronically by the testing agency to McGill University using our institution code of 0935. Scanned copies of results or hard copies sent in the mail will not be entered as received in your application. IELTS scores also must be submitted electronically by the test centre to McGill University.

### 10.11.1032 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

### 10.11.1033 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Human Genetics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

#### M.Sc. Genetic Counselling program* (Non-Thesis)

<table>
<thead>
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<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
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<td>All Applicants</td>
<td></td>
</tr>
<tr>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
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<td>Fall Term:</td>
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<td>Jan. 15</td>
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<td>Winter Term:</td>
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#### M.Sc. (Thesis) and Ph.D. Human Genetics programs

<table>
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<td>All Applicants</td>
<td></td>
</tr>
<tr>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
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<td>Feb. 15</td>
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<td>Summer Term:</td>
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</tr>
<tr>
<td>May 15</td>
<td>Jan. 15</td>
</tr>
</tbody>
</table>

Applications for thesis programs submitted after these deadlines may be considered, if a suitable supervisor can be secured. However, these applications will not be considered for departmental funding or entrance awards.

* The M.Sc. Genetic Counselling program accepts applications for the Fall term only. No late applications or applications for Summer or Winter terms for the Genetic Counselling program will be considered under any circumstances.

### 10.11.104 Human Genetics Faculty

**Chair**

E.A. Shoubridge

**Program Directors**

- J. Fitzpatrick – *M.Sc. in Genetic Counselling*
- A. Ryan – *M.Sc. and Ph.D. in Human Genetics*

**Emeritus Professors**

- V. Der Kaloustian; B.A.(Acad.), M.Sc., Ph.D., M.D.,C.M.(McG.), D.Sc.(Acad.), F.R.S.C., F.R.C.P.S.(C)
- F. Kaplan; B.A.(Col.), Ph.D.(McG.)
- B. Mukherjee; B.Sc., M.Sc.(Calc.), M.Sc.(BYU), Ph.D.(Utah)
### Emeritus Professors
- L. Pinsky; M.D.(McG.)
- C. Scriver; B.A., M.D.,C.M.(McG.)

### Professors
- E. Andermann; M.Sc., Ph.D., M.D.,C.M.(McG.) *(Neurology and Neurosurgery)*
- G. Bourque; B.Sc. (Montr.), M.A., Ph.D.(USC) *(Genome Quebec)*
- W. Foulkes; B.Sc., MB.BS., Ph.D.(Lond.) *(Medicine)*
- B. Knoppers; Ph.D.(Paris IV), Ad.E., O.C. *(Director, Centre of Genomics and Policy)*
- M. Lathrop; B.Sc., M.Sc.(Alta.), Ph.D.(Wash.) *(Director, McGill University-Genome Quebec Innovation Centre)*
- R. McInnes; C.M.,M.D., Ph.D., F.R.S.C.(McG.) *(Alva Chair in Human Genetics) *(Director, Lady Davis Research Institute)*
- R. Palmour; B.A.(Texas W.), Ph.D.(Texas) *(Psychiatry and Biology)*
- D. Radzioch; M.Sc., Ph.D.(Jagiellonian, Krakow) *(Medicine)*
- D.S. Rosenblatt; M.D.,C.M.(McG.) *(Medicine, Pediatrics, and Biology)*
- R. Rozen; B.Sc., Ph.D.(McG.) *(Pediatrics and Biology)*
- E. Schurr; M.Sc., Ph.D.(Albert-Ludwigs, Freiburg) *(Medicine)*
- E.A. Shoubridge; B.Sc., M.Sc.(McG.), Ph.D.(Br. Col.) *(Neurogenetics)*
- R. St-Arnaud; B.Sc.(Montr.), Ph.D.(Laval) *(Surgery)*
- P. Tonin; B.Sc., M.Sc., Ph.D.(Tot.) *(Medicine)*
- J. Trasler; M.D.,C.M., Ph.D.(McG.) *(William Dawson Scholar) *(Pathology and Pediatrics)*
- S. Vidal; Ph.D.(Genève) *(Medicine)*

### Associate Professors
- B. Brais; M.D.,C.M., Ph.D.(McG.) *(Neurology and Neurosurgery)*
- N. Braverman; B.Sc.(Cornell), M.Sc.(Sarah Lawrence), M.D.(Tulane) *(Pediatrics)*
- K. Dewar; Ph.D.(Laval) *(Genome Quebec)*
- Y. Joly; Ph.D.(McG.) *(Centre of Genomics and Policy)*
- J. Majewski; B.Sc., M.Sc.(Stan.), Ph.D.(Wesl.)
- P. Moffatt; Ph.D.(Montr.) *(Pharmacology)*
- R. Nadon; B.A., M.A., Ph.D.(C’dia)
- J. Ragoussis; Ph.D.(Tübingen)
- L. Russell; B.A., M.D.(Ind.) *(Pediatrics)*
- A. Ryan; Ph.D.(Qu.)
- R. Slim; M.Sc.(Lebanese), M.Sc., Ph.D.(Paris VII)

### Assistant Professors
- D. Buhas; M.D.(Craiova) *(Montreal Children's Hospital)*
- L. Cartier; B.Sc., M.Sc.(McG.)
- C. Crist; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tokyo)
- I. De Bie; M.D.(Laval), Ph.D.(McG.) *(Montreal Children's Hospital)*
- J. Fitzpatrick; M.S.(Mich.) *(Pediatrics and Medicine)*
- S. Gravel; Ph.D.(Physics)(Cornell) *(Numerical methods)*
- E. Grundberg; Ph.D.(Uppsala) *(Internal medicine)*
- C. Kleinman; Ph.D.(Montr.) *(Bioinformatics)*
Assistant Professors
H. Najafabadi; Ph.D.(Montr.) (Genome Innovation Centre)
I. Ragoussis; Ph.D.(Tübingen) (Genome Innovation Centre)
Y. Riaz Alhosseini; Ph.D.(Heidel.) (Genome Quebec)
J.P. Riviere; Ph.D.(Montr.) (RI MUHC)
A. Ruchon; Ph.D.(Montr.) (Biomedical Sciences)
V. Soleimani; Ph.D.(Ott.) (Jewish General Hospital)
Y. Trakadis; M.D.(Montr.) (Montreal Children's Hospital)
R. Sladek; B.A.Sc., M.D.(Tor.)
L. Walsh; Ph.D.(W. Ont.)
Y. Yamanaka; Ph.D.(Osaka) (Goodman Cancer Research Centre)

Lecturers
N. Anoja (Medicine)
L. Baret (Medicine)
S. Drury (Pediatrics)
S. Fox (Medicine)
L. Kasprzak (Medicine)
M. Lalous (Medicine)
L. Macrae (Medicine)
L. Palma (Medicine)
G. Sillon (Medicine)
L. Whelton (Medicine)
N. Wong (Medicine)
S. Zaor (Medicine)

Adjunct Professors
K. Anderson (Children's Hospital of Eastern Ontario)
T. Chiu (Children's Hospital of Eastern Ontario)
M. Cloutier (Children's Hospital of Eastern Ontario)
E. Creede (Children's Hospital of Eastern Ontario)
C. Goldsmith (Children's Hospital of Eastern Ontario)
B. Gottleib (Medicine)
V.A. Hastings (Children's Hospital of Eastern Ontario)
C. Honeywell (Children's Hospital of Eastern Ontario)
A. Imai (Osaka Univ.)
A. Montpetit (Genome Quebec)
S. Morrison (Children's Hospital of Eastern Ontario)

Adjunct Member
D. Vinh; M.D. (Dept. of Medical Microbiology; Medicine)

Associate Members
Biochemistry: P. Gros, D. Thomas
Bioethics: J. Kimmelman
Associate Members

Cardiology: J. Genest

Cancer Genetics: G. Zogopoulos

Dentistry: L. Diatchenko

Endocrinology: C. Polychonakos, B. Richards

Epidemiology, Biostatistics and Occupational Health: C. Greenwood

Law: R. Gold


Nephrology: I. Gupta

Neurology: G. Rouleau

Obs.-Gyn.: R. Gagnon, A. Naumova


Psychiatry: R. Joober, G. Turecki, C. Ernst

Surgery: P. Roughley

10.11.10.5 Master of Science (M.Sc.) Human Genetics (Thesis) (45 credits)

Thesis Courses (33 credits)

HGEN 680 (9) M.Sc. Thesis Research 1
HGEN 681 (12) M.Sc. Thesis Research 2
HGEN 682 (12) M.Sc. Thesis Research 3

Required Courses (6 credits)

HGEN 662 (3) Laboratory Research Techniques
HGEN 692 (3) Human Genetics

Complementary Courses (6 credits)

6 credits chosen from the departmental offerings below or from 500-, 600-, or 700-level courses offered in the Faculties of Medicine or Science:

HGEN 660 (3) Genetics and Bioethics
HGEN 661 (3) Population Genetics
HGEN 663 (3) Beyond the Human Genome
HGEN 670 (3) Advances in Human Genetics 1
HGEN 671 (3) Advances in Human Genetics 2
HGEN 690 (3) Inherited Cancer Syndromes
HGEN 691 (3) Host Responses to Pathogens
HGEN 693 (3) Using Bioinformatics Resources
HGEN 695 (3) Psychiatric Genetics
HGEN 696 (3) Advanced Readings in Genetics 1
HGEN 697 (3) Advanced Readings in Genetics 2
HGEN 698 (3) Advanced Readings in Genetics 3
HGEN 699 (3) Advanced Readings in Genetics 4

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.
**10.11.10.6 Master of Science (M.Sc.) Human Genetics (Thesis): Bioinformatics (45 credits)**

**This program is currently not offered.**

**Thesis Courses (33 credits)**

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>HGEN 680</td>
<td>9</td>
<td>M.Sc. Thesis Research 1</td>
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<tr>
<td>HGEN 681</td>
<td>12</td>
<td>M.Sc. Thesis Research 2</td>
</tr>
<tr>
<td>HGEN 682</td>
<td>12</td>
<td>M.Sc. Thesis Research 3</td>
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**Required Courses (6 credits)**

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<th>Credits</th>
<th>Description</th>
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</thead>
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<tr>
<td>COMP 616D1</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>1.5</td>
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<tr>
<td>HGEN 692</td>
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**Complementary Courses (6 credits)**

6 credits from the following courses:

<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BINF 621</td>
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<td>Bioinformatics: Molecular Biology</td>
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<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
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<tr>
<td>BTEC 555</td>
<td>3</td>
<td>Structural Bioinformatics</td>
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<tr>
<td>COMP 618</td>
<td>3</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>3</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

**10.11.10.7 Master of Science (M.Sc.) Human Genetics (Thesis): Bioethics (45 credits)**

**Thesis Courses (30 credits)**

30 credits selected as follows:

<table>
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<th>Course Code</th>
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<th>Description</th>
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**Required Courses (12 credits)**

12 credits from:

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<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BIOE 680</td>
<td>3</td>
<td>Bioethical Theory</td>
</tr>
<tr>
<td>BIOE 681</td>
<td>3</td>
<td>Bioethics Practicum</td>
</tr>
<tr>
<td>HGEN 662</td>
<td>3</td>
<td>Laboratory Research Techniques</td>
</tr>
<tr>
<td>HGEN 692</td>
<td>3</td>
<td>Human Genetics</td>
</tr>
</tbody>
</table>

**Complementary Courses (3 credits)**

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 682</td>
<td>3</td>
<td>Medical Basis of Bioethics</td>
</tr>
<tr>
<td>CMPL 642</td>
<td>3</td>
<td>Law and Health Care</td>
</tr>
<tr>
<td>PHIL 643</td>
<td>3</td>
<td>Seminar: Medical Ethics</td>
</tr>
<tr>
<td>RELG 571</td>
<td>3</td>
<td>Ethics, Medicine and Religion</td>
</tr>
</tbody>
</table>
10.11.0.8 Master of Science (M.Sc.) Genetic Counselling (Non-Thesis) (48 credits)

Required Courses (48 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 600D1</td>
<td>(3)</td>
<td>Genetic Counselling Practicum</td>
</tr>
<tr>
<td>HGEN 600D2</td>
<td>(3)</td>
<td>Genetic Counselling Practicum</td>
</tr>
<tr>
<td>HGEN 601</td>
<td>(3)</td>
<td>Genetic Counselling Principles</td>
</tr>
<tr>
<td>HGEN 610D1</td>
<td>(3)</td>
<td>Genetic Counselling: Independent Studies</td>
</tr>
<tr>
<td>HGEN 610D2</td>
<td>(3)</td>
<td>Genetic Counselling: Independent Studies</td>
</tr>
<tr>
<td>HGEN 617</td>
<td>(3)</td>
<td>Principles of Medical Genetics</td>
</tr>
<tr>
<td>HGEN 620</td>
<td>(3)</td>
<td>Introductory Field Work Rotations 1</td>
</tr>
<tr>
<td>HGEN 621</td>
<td>(6)</td>
<td>Intro Field Work Rotations 2</td>
</tr>
<tr>
<td>HGEN 630D1</td>
<td>(6)</td>
<td>Advanced Field Work Rotations</td>
</tr>
<tr>
<td>HGEN 630D2</td>
<td>(6)</td>
<td>Advanced Field Work Rotations</td>
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<tr>
<td>HGEN 640</td>
<td>(3)</td>
<td>Second Year Practicum 1</td>
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<tr>
<td>HGEN 641</td>
<td>(3)</td>
<td>Second Year Practicum 2</td>
</tr>
<tr>
<td>PATH 653</td>
<td>(3)</td>
<td>Reading and Conference</td>
</tr>
</tbody>
</table>

10.11.0.9 Doctor of Philosophy (Ph.D.) Human Genetics

Candidates entering Ph.D. 1 must complete at least three years of full-time resident study (six terms). The normal and expected duration of the Ph.D. program is four to five years. A student who has obtained a master's degree at McGill in a related field, or at an approved institution elsewhere, and is proceeding in the same subject toward a Ph.D. degree may, upon the recommendation of the Graduate Training Committee, enter at the Ph.D. 2 level.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 692</td>
<td>(3)</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>HGEN 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
</tbody>
</table>

**Complementary Courses (15 credits)**

(15 credits or 6 credits depending on admission status as described above.)

Courses are to be chosen from the list below and/or from among 500-, 600-, or 700-level courses offered in the Faculties of Medicine and Science.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 660</td>
<td>(3)</td>
<td>Genetics and Bioethics</td>
</tr>
<tr>
<td>HGEN 661</td>
<td>(3)</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>HGEN 663</td>
<td>(3)</td>
<td>Beyond the Human Genome</td>
</tr>
<tr>
<td>HGEN 690</td>
<td>(3)</td>
<td>Inherited Cancer Syndromes</td>
</tr>
<tr>
<td>HGEN 691</td>
<td>(3)</td>
<td>Host Responses to Pathogens</td>
</tr>
<tr>
<td>HGEN 693</td>
<td>(3)</td>
<td>Using Bioinformatics Resources</td>
</tr>
<tr>
<td>HGEN 695</td>
<td>(3)</td>
<td>Psychiatric Genetics</td>
</tr>
<tr>
<td>HGEN 696</td>
<td>(3)</td>
<td>Advanced Readings in Genetics 1</td>
</tr>
<tr>
<td>HGEN 697</td>
<td>(3)</td>
<td>Advanced Readings in Genetics 2</td>
</tr>
<tr>
<td>HGEN 698</td>
<td>(3)</td>
<td>Advanced Readings in Genetics 3</td>
</tr>
</tbody>
</table>
Students are restricted to taking the following courses:

- HGEN 670 (3) Advances in Human Genetics 1
- HGEN 671 (3) Advances in Human Genetics 2

Note: The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate.

**10.11.10 Doctor of Philosophy (Ph.D.) Human Genetics: Bioinformatics**

**This program is currently not offered.**

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (6 credits)**

- COMP 616D1 (1.5) Bioinformatics Seminar
- COMP 616D2 (1.5) Bioinformatics Seminar
- HGEN 692 (3) Human Genetics
- HGEN 701 (0) Ph.D. Comprehensive Examination

**Complementary Courses (6 credits)**

* Two courses from the following:

- BINF 621 (3) Bioinformatics: Molecular Biology
- BMDE 652 (3) Bioinformatics: Proteomics
- BTEC 555 (3) Structural Bioinformatics
- COMP 618 (3) Bioinformatics: Functional Genomics
- PHGY 603 (3) Systems Biology and Biophysics

* Note: Students who enter in Ph.D. 1 will need to take an additional 6 credits of complementary courses chosen from the departmental offerings listed for the Ph.D. in Human Genetics and/or from among 500-, 600-, or 700-level courses in the Faculties of Medicine or Science.

**10.11.11 Medical Physics**

**10.11.11.1 Location**

Medical Physics Unit, DS1-7129
McGill University Health Centre – Glen Site
Cedars Cancer Centre
1001 Décarie Boulevard
Montreal QC H4A 3J1
Telephone: 514-934-1934 ext. 44158
Fax: 514-934-8229
Email: margery.knewstubb@mcgill.ca
Website: www.mcgill.ca/medphys

**10.11.11.2 About Medical Physics**

The Medical Physics Unit is a teaching and research unit concerned with the application of physics and related sciences in medicine, especially (but not exclusively) in radiation medicine; i.e., radiation oncology, medical imaging, and nuclear medicine. The Unit offers an M.Sc. in Medical Radiation Physics.
Facilities are available for students to undertake a Ph.D. in Physics administered through the Department of Physics with a research emphasis on medical physics supervised, funded, and hosted by Medical Physics Unit PIs (principal investigators). Facilities are also available for students to undertake a Ph.D. in Biological and Biomedical Engineering administered through the Departments of Biomedical Engineering and Bioengineering with a research emphasis on medical physics and supervised, funded, and hosted by Medical Physics Unit PIs.

The research interests of Unit members include various aspects of medical imaging, including:

- 3D imaging;
- the development of new imaging modalities;
- applications of imaging in radiation therapy such as radiation dosimetry and solid state; nuclear cardiology; and applications of radiation biology to therapy.

Graduate students are part of the Medical Physics Research Training Network (MPRTN) supported by the Collaborative Research Education Training Experience (CREATE) of the Natural Sciences & Engineering Research Council (NSERC).

The M.Sc. and Ph.D. programs in Medical Physics are accredited by the Commission on Accreditation of Medical Physics Education Programs, Inc., sponsored by the American Association of Physicists in Medicine (AAPM), the American College of Radiology (ACR), the American Society for Radiation Oncology (ASTRO), the Canadian Organization of Medical Physicists (COMP), and the Radiological Society of North America (RSNA).

**section 10.11.11.5: Master of Science (M.Sc.) Medical Radiation Physics (Thesis) (52 credits)**

This two-year program provides a comprehensive introduction to the academic, research, and practical aspects of physics applied to radiation medicine. Students may go on to careers in clinical service as medical physicists in research-oriented hospital settings after clinical residency training; may consider development careers in industry in radiation therapy, diagnostic radiology, or nuclear medicine or nuclear energy; in governmental organizations as radiation safety experts, etc.; or pursue academic careers in university, industry, or government organizations. Our graduate programs are accredited by CAMPEP (Commission for Accreditation of Medical Physics Education Programs). Medical physicists must go through CAMPEP training (M.Sc. or Ph.D., followed by a residency training) to be eligible to sit certification exams. Certification is becoming a mandatory requirement for eligibility to practise in a clinical environment. The McGill M.Sc. program is research oriented, which has the additional advantage that the roads toward a Ph.D., followed by academic, industry, or clinical careers, are wide open. The practical and laboratory sections of the program are conducted in various McGill teaching hospitals.

The program comprises:

1. didactic courses in radiation physics, radiation dosimetry, the physics of nuclear medicine and diagnostic radiology, medical imaging, medical electronics and computing, radiation biology, and radiation hazards and protection;
2. seminars in radiation oncology, diagnostic radiology, and miscellaneous aspects of medical physics, e.g., lasers;
3. laboratory courses in radiation dosimetry and medical imaging;
4. an individual research thesis.

**10.11.11.3 Medical Physics Admission Requirements and Application Procedures**

**10.11.131 Admission Requirements**

Candidates applying to the M.Sc. program must normally hold a B.Sc. degree (honours or major) in Physics or Engineering, with a minimum CGPA of 3.0 out of 4.0.

**10.11.132 Application Procedures**

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures. Further information regarding the application procedures is available on the Medical Physics Unit website.

Only complete applications will be considered.

**Note:** When completing the online application, the following information should be entered in the “Application” section to ensure that the application is routed to the correct department:

Under Program choice:
- "Application type" = Degree, certificate, or diploma
- "Term" = Fall 2019
- "Department" = Medical Physics Unit
- "Program" = M.Sc. Med Radiation Physics (Thesis)
- "Area of study" = Medical Radiation Physics-T
- "Status" = Full Time

Under Additional Questions:

Please indicate source(s) of funding to cover tuition & student fees + living expenses while studying at McGill University.
Supporting Documents: All supporting documentation must be uploaded to the online application; any documents sent by mail will be considered unofficial and missing from the application. For detailed instructions on how to upload required supporting documents, please see www.mcgill.ca/gradapplicants/apply/ready.

Transcripts: All transcripts and degree certificates in a language other than English or French must be uploaded to the application in both the original language version and also in an officially certified English or French language version. If the applicant is accepted, original documents must be presented to the University prior to registration. The grading scale must also be viewable.

English Language Proficiency: Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in English by submitting a TOEFL iBT or IELTS test score. The original test report must be sent electronically by the testing centre to McGill University; to ensure successful transmission, the student's name given to the testing centre must be identical to the name used for the McGill online application, otherwise the electronic result will not be applied to the McGill application.

Note: McGill institution code = 0935; Medical Physics Unit = 99 (department not listed).

The test must have been taken within the two years prior to date of application review, i.e., not prior to May 01, 2017 for a graduate application to McGill for Fall 2019. Applicants from some countries are exempt from providing evidence of English language proficiency. For more information, see www.mcgill.ca/gradapplicants/international/apply/proficiency.

Reference Letters: In order for referees to receive an automated email with instructions to upload their recommendation, applicants must include referees' institutional email addresses in the online application; Gmail, Yahoo, etc. email addresses will not be accepted.

10.11.13.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Medical Physics Unit and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

Admissions to the M.Sc. program are open for the Fall term (beginning in September) only. Applications must be completed by January 15 to be considered for the following Fall term, i.e., online application submitted and all required documents uploaded.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.14 Medical Physics Faculty

Director
J. Seuntjens

Emeritus Professor

Professors
D. Louis Collins; M.Eng., Ph.D.(McG.), Post Doc.(Rennes), F.C.C.P.M.
S.M. Lehnert; B.Sc.(Nott.), M.Sc., Ph.D.(Lond.)
J. Seuntjens; M.Sc., Ph.D.(Ghent), F.C.C.P.M., F.A.A.P.M., F.C.O.M.P.
N. Ybarra; Ph.D.(Montr.)
Assistant Professors
S. Devic; M.Sc., Ph.D.(Belgrade), F.C.C.P.M.
S. Enger; Ph.D.(Uppsala), Post Doc.(Laval)
M.D.C. Evans; B.A.(Qu.), M.Sc.(McG.), F.C.C.P.M.
J. Kildea; Ph.D.(Dublin), M.Sc.(McG.)
I. Levesque; Ph.D.(McG.), Post Doc.(Stan.)
W. Parker; M.Sc.(McG.), F.C.C.P.M.
H.J. Patrocinio; M.Sc.(McG.), F.C.C.P.M., D.A.B.R.
G. Stroian; M.Sc.(McG.), Ph.D.(Montpellier), F.C.C.P.M.

Affiliate Members

Adjunct Professors
F. DeBlois; M.Sc., Ph.D.(McG.), F.C.C.P.M.
C. Janicki; B.Sc., M.Sc., Ph.D.(Montr.)
I. El Naqa; B.Sc., M.S.(Jordan), Ph.D.(Chic.), M.A.(Wash.), D.A.B.R.
G.B. Pike; B.Eng.(St. John’s), M.Eng., Ph.D.(McG.)
A. Reader; B.Sc.(Kent), Ph.D.(Lond.)
E. Soisson; M.Sc., Ph.D.(Wisc.)

10.11.11.5 Master of Science (M.Sc.) Medical Radiation Physics (Thesis) (52 credits)
The M.Sc. program in Medical Radiation Physics provides candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background and enables candidates to undergo further training through a clinical residency program or to further advanced graduate studies in medical physics through a Ph.D. degree. Graduates from the program typically find employment in clinical settings, academia, industry, or governmental research and regulatory agencies. The program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP).

Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDPH 690</td>
<td>24</td>
<td>M.Sc. Thesis Research</td>
</tr>
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</table>

Required Courses (28 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDPH 601</td>
<td>3</td>
<td>Radiation Physics</td>
</tr>
<tr>
<td>MDPH 602</td>
<td>3</td>
<td>Radiotherapy Physics</td>
</tr>
<tr>
<td>MDPH 603</td>
<td>2</td>
<td>Laboratory Radiotherapy Physics</td>
</tr>
<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Medical Imaging</td>
</tr>
<tr>
<td>MDPH 608</td>
<td>2</td>
<td>Laboratory - Diagnostic Radiology and Nuclear Medicine</td>
</tr>
<tr>
<td>MDPH 609</td>
<td>2</td>
<td>Radiation Biology</td>
</tr>
<tr>
<td>MDPH 612</td>
<td>3</td>
<td>Instrumentation and Computation in Medical Physics</td>
</tr>
<tr>
<td>MDPH 613</td>
<td>2</td>
<td>Health Physics</td>
</tr>
<tr>
<td>MDPH 614</td>
<td>3</td>
<td>Physics of Diagnostic Radiology</td>
</tr>
<tr>
<td>MDPH 615</td>
<td>2</td>
<td>Physics of Nuclear Medicine</td>
</tr>
<tr>
<td>MDPH 618</td>
<td>3</td>
<td>Anatomy and Physiology for Medical Physics</td>
</tr>
</tbody>
</table>
10.11.12 Medicine, Experimental

10.11.12.1 Location
Division of Experimental Medicine
Department of Medicine
1001 Decarie Boulevard
Montreal QC H4A 3J1
Canada
Telephone: 514-934-1934, ext. 34699 or 34700
Email: experimental.medicine@mcgill.ca
Website: www.mcgill.ca/expmed

10.11.12.2 About Experimental Medicine
Experimental Medicine is a Division of the Department of Medicine charged with the task of providing graduate education in the Department, and enabling professors located in the research institutes of the McGill teaching hospitals and other centres to supervise graduate students. The Division offers various programs, each of which has different training objectives (see below). The international recognition of the high-quality training accorded our graduates is in essence what distinguishes graduates of our programs from the graduates of comparable programs in peer institutions.

section 10.11.12.5: Master of Science (M.Sc.) Experimental Medicine (Thesis) (45 credits)
Applicants for the M.Sc. in Experimental Medicine must hold either an M.D. degree, a B.Sc. degree, or the equivalent. The graduate training offered is wide-ranging and addresses experimental aspects of medicine in such diverse areas as:

- endocrinology;
- hematology;
- cardiology;
- oncology;
- gastroenterology;
- genetics;
- infectious diseases.

This thesis program may lead to careers in industry, or serve as a stepping stone to further graduate studies.

section 10.11.12.6: Master of Science (M.Sc.) Experimental Medicine (Thesis): Bioethics (45 credits)
Applicants for the M.Sc. Bioethics Option program must hold an M.D.; a Nursing degree; a Physical and Occupational Therapy degree; and/or any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis. The objectives of this research-stream program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care, and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies.

The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, Bioethics courses (6-credit minimum) offered by the base faculty or department, and any graduate course required or accepted by a base faculty for the granting of a master's degree, for a total of 21 credits. A minimum of 45 credits is required including the thesis. The research culminates in the preparation of a thesis.

section 10.11.12.7: Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits)
Applicants for the M.Sc. Environment Option must meet the requirements for the M.Sc. in Experimental Medicine as well as those set out by the McGill School of Environment (MSE) for their graduate option. Acceptance into the option will be based on a student's academic experience and performance; availability of an MSE-accredited supervisor or co-supervisor; the proposed research; and plans for funding as articulated by the supervisor(s). The Environment Option is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues, and who wish to benefit from interactions that will occur as they are brought into contact with students from a wide range of disciplines through structured courses, formal seminars, and informal discussions and networking. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments.

section 10.11.12.8: Doctor of Philosophy (Ph.D.) Experimental Medicine
Applicants for the Ph.D. in Experimental Medicine must normally hold an M.Sc. degree. The one exception is the possibility of direct entry offered to candidates having demonstrated academic excellence, i.e., a CGPA of 3.5 or more out of a possible 4.0 throughout their undergraduate studies. The training is in the conduct of research in a wide range of medical specialities. The method of instruction consists of a combination of in-class and practical training, as well as exposure to international conferences and guest seminars. Success is ultimately determined by the preparation and defense of a thesis. This program may lead to research careers in industry, government, or academia.
section 10.11.12.9: Doctor of Philosophy (Ph.D.) Experimental Medicine: Environment

Applicants to the Ph.D. Environment Option must meet the same qualifications as those for the M.Sc. Environment Option, the only difference being that they must hold an M.Sc. rather than simply a B.Sc. For further details, please see the section above regarding the M.Sc. Environment Option.

section 10.11.12.10: Graduate Diploma (Gr. Dip.) Clinical Research (30 credits)

The objectives of this program are to give students exposure to both theoretical and practical issues relevant to the conception and conduct of a clinical research study, as well as allowing them to put these principles in practice by participating in an ongoing clinical trial. The core element of the diploma is the Practicum in Clinical Research. It is an active “clerkship” or “intern/resident-type” participation in an ongoing clinical trial and/or research program. Six 1-credit workshops will be provided by experts in the academic, industrial, and government sectors, and cover wide-ranging issues pertinent to the conduct of clinical research. The training provided qualifies students to manage and design clinical research studies in both academic and industrial settings.

10.11.12.3 Medicine, Experimental Admission Requirements and Application Procedures

10.11.12.3.1 Admission Requirements

M.Sc. or Ph.D. in Experimental Medicine

Admission to graduate studies and research in Experimental Medicine is no longer solely restricted to students who wish to register for the Ph.D. degree. Candidates who hold only an undergraduate degree in the medical and allied sciences (B.Sc. degree or an M.D. degree), must apply to the M.Sc. program, unless they have an undergraduate CGPA of 3.5 or more out of a possible 4.0, in which case they may apply for direct entry into the Ph.D. if they so desire. Candidates who already hold an M.Sc. apply directly to the Ph.D. program.

Admission is based on an evaluation by the Admissions Committee, which looks for evidence of high academic achievement, and on acceptance by a research director. All students must be financially supported either by their supervisor or through studentships or fellowships.

In addition to the documentation currently required by Graduate and Postdoctoral Studies, a letter from the candidate's research director outlining the M.Sc. or Ph.D. project is necessary.

M.Sc. (Bioethics Option)

Admission to the master's program in Bioethics, from the base discipline of Medicine, is limited to students having degrees in Medicine, Nursing, or Physical and Occupational Therapy, as well as any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis.

For requirements, application deadlines, and further information regarding this program, please refer to the Bioethics entry or visit the Biomedical Ethics Unit website.

M.Sc. (Environment Option)

Although the requirements and application deadlines remain the same as the M.Sc., applicants wishing to apply to the Master's program (Environment Option) must submit additional documents that constitute their application to BOTH the Division of Experimental Medicine and the McGill School of Environment. Further information can be found on the School of Environment website.

Students in the M.Sc. in Experimental Medicine may choose to transfer to the Environment Option; interested students should refer to the departmental website or contact the Student Affairs Office.

Graduate Diploma in Clinical Research

The Diploma program is open to health care and research professionals, medical residents, pharmacists, nurses, and those with an undergraduate degree in the medical and allied sciences.

10.11.12.22 Application Procedures

McGill's online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures. Further information is also available on the Experimental Medicine website.

10.11.12.21 Additional Requirements

The items and clarifications below are additional requirements set by this department:

M.Sc. and Ph.D. in Experimental Medicine

- Personal Statement
- Curriculum Vitae
- Acceptance by a research director
- Letter from the candidate's research director outlining the M.Sc. or Ph.D. project
- Additional documents (in the cases of the M.Sc. (Bioethics Option) and the M.Sc. (Environment Option))

10.11.12.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Division of Experimental Medicine and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.
### All Programs (except Bioethics Option)

<table>
<thead>
<tr>
<th></th>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
<th>Current McGill Students (any citizenship)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td><strong>Fall Term:</strong></td>
<td>Sept. 14</td>
<td>April 30</td>
<td>June 15</td>
</tr>
<tr>
<td><strong>Winter Term:</strong></td>
<td>Feb. 15</td>
<td>Sept. 1</td>
<td>Nov. 1</td>
</tr>
<tr>
<td><strong>Summer Term:</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### M.Sc. (Bioethics Option)

<table>
<thead>
<tr>
<th></th>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
<th>Current McGill Students (any citizenship)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td><strong>Fall Term:</strong></td>
<td>Sept. 15</td>
<td>Jan. 15</td>
<td>Jan. 15</td>
</tr>
<tr>
<td><strong>Winter Term:</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Summer Term:</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 10.11.12.4 Medicine, Experimental Faculty

**Chair, Department of Medicine**

J. Martin

**Director, Division of Experimental Medicine**

A.-M. Lauzon

**Professors**

M. Alaoui-Jamali; D.V.M.(Rabat, Morocco), Ph.D.(Paris V)
S. Ali; B.Sc.(C'dia), Ph.D.(McG.)
C. Autexier; B.Sc.(C'dia), Ph.D.(McG.)
A. Bateman; B.Sc., Ph.D.(Lond.)
G. Batist; B.Sc.(Col.), M.D.,C.M.(McG.), F.R.C.P.(C)
O. Beauchet; B.Sc.(Sainte-Etienne), M.Sc.(Claude Bernard), Ph.D.(Jean Monnet)
M. Behr; B.Sc.(Tor.), M.D.(Qu.), M.Sc.(McG.)
H. Bennett; B.A.(York, UK), Ph.D.(Brunel)
V. Blank; B.Sc., M.Sc.(Konstanz), Ph.D.(Inst. Pasteur)
J. Bourbeau; M.D.(Laval), M.Sc.(McG.), F.R.C.P.(C)
A. Cybulsky; M.D.(Tor.), F.R.C.P.(C)
G. Di Battista; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)
A. Fuks; B.Sc., M.D.,C.M.(McG.)
A. Gatignol; M.Sc., Ph.D.(Paul Sabatier)
J. Genest Jr.; M.D.,C.M.(McG.), F.R.C.P.(C)
V. Giguere; B.Sc., Ph.D.(Laval)
M. Goldberg; B.Sc., M.Sc., Ph.D.(McG.)
**Professors**

D. Goltzman; B.Sc., M.D., C.M. (McG.), F.R.C.P.(C)

S.A. Grover; B.A. (Roch.), M.D., C.M. (McG.), M.P.A. (Harv.), F.R.C.P.(C)

Q.A. Hamid; M.D. (Mosul, Iraq.), Ph.D. (Lond.)

J. Henderson; B.Sc., Ph.D. (McG.)

G. Hendy; B.Sc. (Sheff.), Ph.D. (Lond.)

L.J. Hoffer; B.Sc., M.D., C.M. (McG.), Ph.D. (MIT)

S. Hussain; M.D. (Baghdad), Ph.D. (McG.)

A.C. Karaplis; B.Sc., M.D., Ph.D. (McG.)

R. Kremer; M.D., Ph.D. (Paris VI)

A.-M. Lauzon; B.Sc., M.Sc., Ph.D. (McG.)

C. Liang; B.Sc., Ph.D. (Nankai)

J.-J. Lebrun; B.Sc., M.Sc. (Rennes), Ph.D. (Paris V)

M.S. Ludwig; M.D. (Manit.), F.R.C.P.(C)

S. Magder; M.D. (Tor.), F.R.C.P.(C)

D. Malo; D.V.M., M.Sc. (Montr.), Ph.D. (McG.)

O.A. Mamer; B.Sc., Ph.D. (Windsor)

A. J. Marelli; B.Sc. (McG.), M.D. (Montr.)

J. Martin; B.Sc., M.B., B.Ch., M.D. (Cork), F.R.C.P.(C)

W.H. Miller; A.B. (Princ.), Ph.D. (Rock.), M.D. (Cornell)

A. Moulard; B.A., B.Sc., Ph.D. (McG.)

W.J. Muller; B.Sc., Ph.D. (McG.)

A. Nepveu; B.Sc., M.Sc. (Montr.), Ph.D. (Sher.)

T. Nilsson; B.Sc., Ph.D. (Uppsala)

M. Olivier; B.Sc., M.Sc. (Montr.), Ph.D. (McG.)

L. Panasci; B.Sc., M.D. (G'town)

K. Pantopoulos; B.Sc., Ph.D. (Aristotelian, Greece)

M. Park; B.Sc., Ph.D. (Glas.)

B.J. Petrof; M.D. (Laval)

L. Pilote; M.D., C.M. (McG.), M.Sc. (Harv.), Ph.D. (Calif.)

M.N. Pollak; M.D., C.M. (McG.), F.R.C.P.(C)

P. Ponka; M.D., Ph.D. (Charles Univ., Prague)

B. Posner; M.D. (Manit.), F.R.C.P.(C)

W.S. Powell; B.A. (Sask.), Ph.D. (Dal.)

S. Rabbani; M.B.B.S. (King Edward Med. Coll., Lahore)

D. Radzioch; M.Sc., Ph.D. (Jagiellonian, Cracow)

S. Richard; B.Sc., Ph.D. (McG.)

J.-P. Routy; B.Sc., M.D., Ph.D. (Aix-Marseille)

D. Sasseville; M.D. (Laval), F.R.C.P.(C)

E. Schiffrin; M.D. (Buenos Aires), Ph.D. (McG.)

E. Schurr; Diplom., Ph.D. (Al. Ludwigs U., Freiburg)

A. Schwertani; D.V.M. (Baghdad), M.D., Ph.D. (Lond.)

D. Sheppard; M.D. (Tor.), F.R.C.P.(C)
Professors

A.D. Sniderman; M.D.(Tor.)
M.M. Stevenson; B.A.(Hood), M.Sc., Ph.D.(Catholic U. of Amer.)
T. Takano; M.D., Ph.D.(Tokyo)
D.M.P. Thomson; M.D.(W. Ont.), Ph.D.(Lond.), F.R.C.P.(C)
P. Tonin; B.Sc., M.Sc., Ph.D.(Tor.)
M. Trifiro; B.Sc., M.D.,C.M.(McG.)
C. Tsoukas; B.Sc.(McG.), M.Sc.(Hawaii), M.D.(Athens), F.R.C.P.(C)
B.J. Ward; M.D.,C.M.(McG.), M.Sc.(Oxf.), F.R.C.P.(C)
J. White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.)
S. Wing; B.Sc., M.Sc.(McG.)
X.-J. Yang; B.Sc.(Zhejiang), Ph.D.(Shanghai)

Associate Professors

D. Baran; M.D.,C.M.(McG.), F.R.C.P.(C)
N. Bernard; B.Sc.(McG.), Ph.D.(Duke)
V. Blank; B.Sc., M.Sc.(Konstanz, Germany), Ph.D.(Inst. Pasteur)
M. Blostein; M.D.,C.M.(McG.)
P. Brassard; B.Sc., M.D.(Montr.), M.Sc.(McG.), F.R.C.P.(C)
L. Chalifour; B.Sc., Ph.D.(Manit.), M.A.(Harv.)
S.R. Cohen; B.Sc., M.Sc., Ph.D.(McG.)
D. Cournoyer; M.D.(Sher.), F.R.C.P.(C)
K. Dasgupta; B.Sc.(PEI), M.D.,C.M., M.Sc.(McG.)
S. Daskalopoulou; M.D.(Athens)
J.C. Engert; B.A.(Colby), Ph.D.(Boston)
V. Essebag; M.D.,C.M., M.Sc., Ph.D.(McG.), F.R.C.P.(C)
E. Fixman; B.Sc.(Col.), Ph.D.(Johns Hop.)
B. Gilfix; B.Sc.(Manit.), Ph.D.(W. Ont.), M.D.,C.M.(McG.), F.R.C.P.(C)
S.B. Gottfried; M.D.(Penn.)
T. Jagoe; B.A., M.D.(Camb.), Ph.D.(Newcastle, UK), F.R.C.P.(C)
B. Jean-Claude; B.Sc., M.Sc.(Moncton), Ph.D.(McG.)
M. Kokoeva; B.Sc.(Lomonosov Moscow), Ph.D.(Acad. of Sci., Moscow)
A. Kristof; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)
P. Laneuville; B.Sc.(McM.), M.D.(Ott.), F.R.C.P.(C)
S. Laporte; B.Sc., M.Sc., Ph.D.(Sher.)
L. Larose; B.Sc., Ph.D.(Montr.)
S. Lehoux; B.Sc.(Bishop's), Ph.D.(Sher.)
S. Lemay; M.D.(Montr.), F.R.C.P.(C)
R. Lin; B.Sc., B.Sc.(Xiamen), M.Sc.(Peking Union), Ph.D.(Cdia)
M. Lipman; M.D.,C.M.(McG.), F.R.C.P.(C)
J.-L. Liu; B.Sc., M.Sc.(Beijing), Ph.D.(McG.)
J.A. Morais; M.D.(Montr.), F.R.C.P.(C)
S. Morin; B.Sc., M.D.(Laval), M.Sc.(McG.)
**Associate Professors**

M. Murshed; M.Sc.(Brussels), Ph.D.(Cologne)
A.C. Peterson; B.Sc.(Vic., BC), Ph.D.(Br. Col.)
S. Qureshi; B.Sc., M.D.(Alta.), F.R.C.P.(C)
J. Rauch; B.Sc., Ph.D.(McG.)
C. Rocheleau; B.A.(Assum. Coll.), Ph.D.(Mass.)
S. Rousseau; B.Sc., M.Sc., Ph.D.(Laval)
M. Saleh; B.Sc., M.Sc.(Beirut), Ph.D.(McG.)
C. Seguin; B.Sc.(McG.), M.D.(Montr.), F.R.C.P.(C)
P. Siegel; B.Sc., Ph.D.(McM.)
R. Sladek; B.Sc., M.D.(Tor.), F.R.C.P.(C)
G. Thanassoulis; B.Sc., M.Sc.(McG.), M.D.(Tor.), F.R.C.P.(C)
E. Torban; B.Sc.(Moscow St. Inst. of Food Ind.), M.Sc.(Moscow Inst. of Genetics of Microorganisms), Ph.D.(McG.)
B. Turcotte; B.Sc., Ph.D.(Laval)

**Assistant Professors**

J. Afilalo; M.D.,C.M., M.Sc.(McG.), F.R.C.P.(C)
R. Aloyz; B.A., M.Sc., Ph.D.(Buenos Aires)
A. Baass; B.Sc.(McG.), M.D., M.Sc.(Montr.), F.R.C.P.(C)
C. Baglole; B.Sc., M.Sc.(PEI), Ph.D.(Calg.)
I. Colmenga; M.Sc.(El Salvador)
C. Costinuk; B.A.(Western), B.Sc.(Nfld.), M.D.(McM.), M.Sc.(Ott.)
M. Divangahi; B.Sc.(McM.), Ph.D.(McG.)
N. Johnson; B.Sc.(C'dia), M.D.(Ott.), Ph.D.(Br. Col.), F.R.C.P.(C)
M. Kaminska; B.Sc., M.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)
I. Litvinov; B.Sc., B.A.(Kent'Y), Ph.D.(Johns Hop.), M.D.,C.M.(McG.)
B. McDonald Smith; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)
E. Nashi; B.Sc., M.D.(Alta.), M.Sc.(McG.), Ph.D.(Northshore Medical Ctr.), F.R.C.P.(C)
M. Ndao; B.Sc., D.V.M.(Senegal), M.Sc., Ph.D.(Belgium)
D. Nguyen; M.D.,C.M.(McG.), F.R.C.P.(C)
P. Pamidi; B.Sc.(McG.), M.D.(McG.)
M. Palouras; B.Sc.(Flor.), Ph.D.(McG.)
G. Sebastiani; M.D.(Padova)
D.C. Vinh; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

**Associate Members, McGill**

10.11.12.5 Master of Science (M.Sc.) Experimental Medicine (Thesis) (45 credits)

**Thesis Courses (36 credits)**
24-36 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 690</td>
<td>(3)</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>EXMD 691</td>
<td>(6)</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>EXMD 692</td>
<td>(9)</td>
<td>Master's Thesis Research 3</td>
</tr>
<tr>
<td>EXMD 693</td>
<td>(12)</td>
<td>Master's Thesis Research 4</td>
</tr>
<tr>
<td>EXMD 694</td>
<td>(12)</td>
<td>Master's Thesis Research 5</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**
9-21 credits of courses at the 500, 600, or 700 level chosen in consultation with the Supervisor. A minimum of 9 course credits is required for students entering the program with a bachelor's or M.D. degree.

10.11.12.6 Master of Science (M.Sc.) Experimental Medicine (Thesis): Bioethics (45 credits)

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 690</td>
<td>(3)</td>
<td>M.Sc. Thesis Literature Survey</td>
</tr>
<tr>
<td>BIOE 691</td>
<td>(3)</td>
<td>M.Sc. Thesis Research Proposal</td>
</tr>
<tr>
<td>BIOE 693</td>
<td>(12)</td>
<td>M.Sc. Thesis</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 680</td>
<td>(3)</td>
<td>Bioethical Theory</td>
</tr>
<tr>
<td>BIOE 681</td>
<td>(3)</td>
<td>Bioethics Practicum</td>
</tr>
</tbody>
</table>

**Complementary Courses (15 credits)**
3 credits, one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 682</td>
<td>(3)</td>
<td>Medical Basis of Bioethics</td>
</tr>
<tr>
<td>CMPL 642</td>
<td>(3)</td>
<td>Law and Health Care</td>
</tr>
<tr>
<td>PHIL 643</td>
<td>(3)</td>
<td>Seminar: Medical Ethics</td>
</tr>
<tr>
<td>RELG 571</td>
<td>(3)</td>
<td>Ethics, Medicine and Religion</td>
</tr>
</tbody>
</table>

12 credits, four 3-credit BIOE or EXMD graduate courses (500, 600, or 700 level) chosen in consultation with the Supervisor.

10.11.12.7 Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits)

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 690</td>
<td>(3)</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>EXMD 692</td>
<td>(9)</td>
<td>Master's Thesis Research 3</td>
</tr>
<tr>
<td>EXMD 693</td>
<td>(12)</td>
<td>Master's Thesis Research 4</td>
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</table>
### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

### Complementary Courses (15 credits)

3 credits from one of the following courses*:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment</td>
</tr>
</tbody>
</table>

* or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

12 credits of courses at the 500, 600, or 700 level chosen in consultation with the student's academic supervisor.

### 10.11.12.8 Doctor of Philosophy (Ph.D.) Experimental Medicine

A minimum of 12 course credits is required for students entering the program with a prior master's degree. Students having only a B.Sc. or M.D. degree and who have been either admitted directly or fast-tracked to the Ph.D. must complete a total of 18 credits. The following courses are highly recommended: EXMD 604D1/D2 Recent Advances in Cellular and Molecular Biology; EXMD 610 Biochemical Methods in Medical Research.

After consultation with their research supervisor and the Director of the Division, students may choose their courses from those offered by Experimental Medicine, Physiology, and Biochemistry, as well as other graduate and advanced undergraduate courses in the medical and allied sciences. Where necessary, students may enrol for credit in courses offered in the physical and mathematical sciences.

### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 701D1</td>
<td>0</td>
<td>Comprehensive Oral Examination</td>
</tr>
<tr>
<td>EXMD 701D2</td>
<td>0</td>
<td>Comprehensive Oral Examination</td>
</tr>
</tbody>
</table>

### Complementary Courses (18 credits)

(12-18 credits)

A minimum of 12 course credits is required for students entering the program with a prior master's degree. Students having been fast-tracked to the Ph.D. must complete a total of 18 credits (9 credits in addition to the 9 which were originally requested upon entry into the M.Sc. program).

### 10.11.12.9 Doctor of Philosophy (Ph.D.) Experimental Medicine: Environment

### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses (6 credits)
Complementary Courses (12 credits)
(6-12 credits)
One of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

* or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

One to three courses at the 500, 600, or 700 level chosen in consultation with the student's academic supervisor.

10.11.12.10 Graduate Diploma (Gr. Dip.) Clinical Research (30 credits)

The core element of the diploma is the Practicum in Clinical Research. It is a six-step program with active “clerkship” or “intern/resident type” participation in each component that is essential to the successful development and evaluation of a clinical trial.

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 617</td>
<td>1</td>
<td>Workshop in Clinical Trials 1</td>
</tr>
<tr>
<td>EXMD 618</td>
<td>1</td>
<td>Workshop in Clinical Trials 2</td>
</tr>
<tr>
<td>EXMD 619</td>
<td>1</td>
<td>Workshop: Clinical Trials 3</td>
</tr>
<tr>
<td>EXMD 620</td>
<td>1</td>
<td>Clinical Trials and Research 1</td>
</tr>
<tr>
<td>EXMD 625</td>
<td>1</td>
<td>Clinical Trials and Research 2</td>
</tr>
<tr>
<td>EXMD 626</td>
<td>1</td>
<td>Clinical Trials and Research 3</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)

Two courses chosen from: Experimental Medicine (EXMD), Pharmacology and Therapeutics (PHAR), Epidemiology and Biostatistics (EPIB). With approval, courses from other Allied Health Sciences departments may be considered.

Required Practicum (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 627</td>
<td>18</td>
<td>Practicum in Clinical Research</td>
</tr>
</tbody>
</table>

10.11.13 Medicine, Family

10.11.13.1 Location

Department of Family Medicine
5858 Côte-des-Neiges Road, 3rd Floor
Montreal QC H3S 1Z1
10.11.13.2 About Family Medicine

The McGill Family Medicine Department is home to an exceptional community of health care professionals, researchers, students, and support staff, whose mission is to contribute to the health of the population and the sustainability of the health care system in Quebec, in Canada, and internationally by:

- training medical students, residents, and other health care professionals to become committed to primary care, contributing to accessibility, continuity, coordination, accountability, patient-centredness, and health promotion and prevention;
- promoting innovation in family medicine and primary health care delivery and practice;
- developing research and scholarly activity to contribute to the academic discipline;
- promoting curriculum innovation and education research;
- engaging in international and global health activities;
- developing and engaging in public policy discussions.

We understand that research in family medicine and primary care is essential to the achievement of excellence in health care delivery, patient care, and education. Our research division is composed of Ph.D. and clinical researchers who dedicate their efforts to producing and translating knowledge that advances the discipline, practice, and teaching of family medicine and primary care while supporting the scholarly activities of clinicians and residents in the Department. We have developed unique and rigorous research programs for M.Sc. and Ph.D. students that advance academic excellence in family medicine and primary health care through patient-oriented, community-based research with innovative methodologies and participatory approaches.

Ph.D. (Ad Hoc)

The Department of Family Medicine offers the possibility of entering a Ph.D. program on an ad hoc basis.

section 10.11.13.5: Master of Science (M.Sc.) Family Medicine (Thesis) (45 credits)

The M.Sc. in Family Medicine is a research-oriented thesis-based graduate program in family medicine. The objective is to increase the skills of those interested in carrying out research pertinent to the practice of family medicine. As many relevant research questions cross conventional boundaries of disciplines and research traditions, we incorporate an interdisciplinary approach with an emphasis on participatory research and community engagement. This program provides training in epidemiology and statistics as well as in qualitative, quantitative and mixed methods. Students are also oriented for knowledge synthesis and participatory research approaches. An emphasis is placed on the relevance of the thesis research to family practice and primary health care. Close links are maintained with the main family medicine clinical sites located around Montreal and Quebec.

section 10.11.13.6: Master of Science (M.Sc.) Family Medicine (Thesis): Bioethics (45 credits)

The objectives of this program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies. A minimum of 45 credits is required including the thesis. The research culminates in the preparation of a thesis.

section 10.11.13.7: Master of Science (M.Sc.) Family Medicine (Thesis): Medical Education (45 credits)

This program will have very close ties to the Family Medicine Educational Research Group (FMER), which is the corollary of the educational innovations in teaching and research conceived and established in the McGill Department of Family Medicine since 2005. The FMER group's ultimate goal is to advance knowledge to:

1. constantly inform family medicine curricula innovations and continuing professional development to better family physicians' clinical practice;
2. significantly contribute to the development of the family medicine education field of inquiry;
3. rigorously develop and inform medical education policy.

This research agenda of FMER is articulated into four interrelated streams:

1. family physician's professional identity formation;
2. information use and technology in the learning episodes of practicing physicians and organizational learning;
3. program evaluation of educational innovations;
4. knowledge synthesis.
10.11.13.3 Medicine, Family Admission Requirements and Application Procedures

10.11.13.31 Admission Requirements

Our program encourages the following applicants:

- Practicing family physicians
- Undergraduate university students with a strong interest in family medicine research
- Family medicine residents who are completing their residency and would like to continue with their education by completing an enhanced skills program specializing in family medicine research with the possibility of obtaining an M.Sc. degree. If interested, you may learn more about the Clinician Scholar Program here.

What do we look for?

High academic achievement: A cumulative grade point average (CGPA) of 3.4 is required out of a possible maximum CGPA of 4.0, or a GPA of 3.6 is required in the last two years of full-time studies.

Proof of competency in oral and written English: TOEFL: International students who have not received their instruction in English or whose mother tongue is not English must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 86 on the Internet-based test (iBT; 567 on the paper-based test (PBT)), with each component score not less than 20.

Note: The TOEFL institution code for McGill University is 0935. For further information, please refer to the TOEFL website.

Alternatively, students may submit International English Language Testing System (IELTS) scores with a minimum overall band score of 6.5. Original score reports must be submitted (photocopies will not be accepted).

For overseas graduates, an attempt is made to situate the applicant’s academic grades among the standards of their universities. Grades are, however, converted to their McGill equivalent. Conversion charts, as well as required admission documentation for each country, are provided by Graduate and Postdoctoral Studies and prospective students should refer to these in order to determine if they are admissible to our program.

10.11.13.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

All supplemental application materials and supporting documents must be uploaded directly to the McGill admissions processing system.

- Supervisor: All students must be matched to a supervisor to be admitted to our graduate programs; this matching will occur during the application process (i.e., after the applicant has submitted a complete application). After the application has been received, the applicants will have an opportunity to be chosen for an interview with one of our supervisors if the minimum admission requirements have been met.
- Application form and fee: All applicants must complete the Online Application. The application must be accompanied by a non-refundable application fee payable by credit card (Visa or Mastercard); fee amounts and details are listed on the Student Accounts website. Please ensure you apply for the M.Sc. in Family Medicine or the ad hoc Ph.D. in Family Medicine.
- Curriculum Vitae: Please upload the latest version of your resumé, which should include a listing of previous research experience and publications. All relevant research experience should be included in your CV since you are essentially applying for a research position in the Department.
- Letters of Reference: Two (2) or three (3) letters of reference must accompany any application to our program. These letters must be no more than six months old, must be on letterhead paper, and are required to be uploaded to the admissions processing system. Applicants are encouraged to request references from academic or other professional employers who can evaluate their potential for graduate studies and research, and who can attest to the applicant’s research skills. Referees will also be asked to rank each applicant and to provide a size of the comparison (i.e., out of 50 supervised students). Any applicant having undertaken previous graduate studies (whether at McGill or elsewhere) should make sure that one of the letters of reference is from their graduate supervisor. Please note: On the application form, applicants must provide the names and email addresses of referees. McGill will contact these referees via email and invite them to upload reference letters on the applicant's behalf (along with the instructions on how to upload the documents). Neither of these reference letters should be from the proposed supervisor.
- Personal Statement: Applicants must submit a personal statement in which they:
  1. describe their background and the reasons why they are applying to the desired program;
  2. describe their research interests and with whom they would like to work among the list of potential supervisors;
  3. describe how they hope to impact family medicine practice; and
  4. describe future plans upon graduation from the desired program.

The statement should be no more than two (2) pages long.

- Writing Assessment
- Interview
- Official Transcripts: Applicants must submit one (1) official copy of all transcripts for all post-secondary education undertaken (Quebec students need not submit CEGEP transcripts). Unofficial transcripts may be uploaded to the McGill admissions processing system and an official transcript must be sent at a later time when the letter of acceptance has been sent by Graduate and Postdoctoral Studies via Minerva (since this will be a condition of the letter). Please note: Official transcripts are not required for studies conducted at McGill University (students may upload a Minerva copy of their McGill transcript with their application and this will be sufficient).
• Writing Sample (for ad hoc Ph.D. and Bioethics option applicants only): Applicants to our ad hoc Ph.D. program must upload a writing sample to review, preferably a thesis or a published article. For Bioethics option applicants, please upload a sample of your writing skills from your undergraduate studies; it does not need to be a thesis or a publication.

10.11.13.21 Additional Requirements
The items and clarifications below are additional requirements set by this department:
• Curriculum Vitae
• Personal Statement – no more than two (2) pages long
• Writing sample (for ad hoc Ph.D. and Bioethics option applicants only)

10.11.13.33 Application Dates and Deadlines
Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Family Medicine and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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</tr>
<tr>
<td>Fall Term: Sept. 15</td>
<td>March 1</td>
</tr>
<tr>
<td>Winter Term: N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term: N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All supporting documents must be received by March 1. Admissions are preferable for the Fall term. Students may be accepted to the Winter term on a case-by-case basis.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.13.4 Medicine, Family Faculty

Chair
Howard Bergman

Graduate Program Director
Gillian Bartlett

Professors
Neil Andersson; M.D., M.Sc., M.Phil.(Lond.), Ph.D.(City, UK), M.F.P.H.(UK)
Gillian Bartlett; B.A., M.Sc., Ph.D.(McG.)
Howard Bergman; B.Sc., M.D.,C.M.(McG.), C.C.F.P, F.C.F.P.
Jeannie Haggerty; B.Sc.(S. Fraser), M.Sc., Ph.D.(McG.)
Ann Macaulay; M.B., Ch.B.(St. And.), C.C.F.P.
Pierre Pluye; M.D.(P. Sabatier), M.Sc., Ph.D.(Montr.)
Charo Rodriguez; M.D.(Alicante), M.P.H.(Valencia), Ph.D.(Montr.)
Mark Yaffe; B.Sc., M.D.,C.M.(McG.), M.C.I.Sc.(W. Ont.), C.C.F.P., F.C.F.P.

Associate Professors
Eugene Bereza; B.A., M.D.,C.M.(McG.), C.C.F.P.
Anne Cockcroft; M.B., B.S., M.D.(Lond.), F.R.C.P., F.F.O.M., D.I.H.(UK)
Roland Grad; M.D.,C.M.(McG.), M.Sc.(McM.), C.C.F.P.
Ellen Rosenberg; B.A.(Smith), M.D.,C.M.(McG.), C.C.F.P.
Ian Shrier; M.D.,C.M., Ph.D.(McG.)
**Associate Professors**

Pierre-Paul Tellier; M.D.,C.M.(McG.)

Isabelle Vedel; M.D.(Paris XI), D.E.A.(Sciences Po), Ph.D.(Reims Champagne-Ardenne)

Mark Ware; B.A.(Qu.), M.B., B.S.(W. Indies), M.Sc.(Lond.)

**Assistant Professors**

Anne Andermann; B.Sc., M.D.,C.M.(McG.), M.Phil.(Camb.), D.Phil.(Oxf.), C.C.F.P., F.R.C.P.(C), F.F.P.H.(UK)

Yves Bergevin; B.Sc.(Coll. Stanislas, Montreal), M.D.,C.M., M.Sc.(McG.), C.C.F.P., F.R.C.P.(C), F.C.F.P.

Alexandra De Pokomandy; M.D.,C.M., M.Sc.(McG.)

Bertrand Lebouche; M.D., M.A., Ph.D.(Laval)

Peter Nugus; M.A., M.Ed., Ph.D.(New South Wales)

Tibor Schuster; B.Sc., M.Sc.(Ludwig Maximilians), Ph.D.(TU Berlin)

Machelle Wilchesky; B.A., M.A.(Qu.), Ph.D.(McG.)

**Associate Members**

Sara Ahmed (*Physical and Occupational Therapy*)

Olivier Beauchet (*Medicine*)

David Buckeridge (*Epidemiology*)

Carolyn Ells (*Bioethics*)

Jennifer Fishman (*Bioethics*)

Matthias Friedrich (*Medicine*)

Richard Hovey (*Dentistry*)

Patricia Li (*Pediatrics*)

Francesca Luconi (*Continuing Professional Development – Faculty of Medicine*)

Antonia Maioni (*Political Science*)

Melissa Park (*Physical and Occupational Therapy*)

Erin Strumpf (*Epidemiology and Economics*)

Daniel Weinstock (*Institute of Health and Social Policy*)

Meredith Young (*Centre of Medical Education*)

**Adjunct Professors**

Tracie Barnett (Institut Armand Frappier)

Julie Bruneau (Montr.)

Yves Couturier (Sher.)

Catherine Hudon (Sher.)

Amalia Issa (Houston)

Janusz Kaczorowski (Montr.)

Edeltraut Kroger (CEVQ)

Susan Law (Tor.)

Marie-Thérèse Lussier (Montr.)

Emily Marshall (Dal.)

Viv Ramsden (Sask.)

Christian Rochefort (Sher.)

Jon Salsberg (Limerick)
## 10.11.13.5 Master of Science (M.Sc.) Family Medicine (Thesis) (45 credits)

### Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FMED 697</td>
<td>12</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>FMED 698</td>
<td>12</td>
<td>Master's Thesis Research 2</td>
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### Required Courses (15 credits)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FMED 505</td>
<td>3</td>
<td>Basic Analysis for Health Data</td>
</tr>
<tr>
<td>FMED 509</td>
<td>3</td>
<td>Foundations of Epidemiology in Family Medicine</td>
</tr>
<tr>
<td>FMED 600</td>
<td>1</td>
<td>Mixed Studies Reviews</td>
</tr>
<tr>
<td>FMED 603</td>
<td>1</td>
<td>Participatory Research: Patient &amp; Public Engagement</td>
</tr>
<tr>
<td>FMED 616</td>
<td>1</td>
<td>Applied Literature Reviews</td>
</tr>
<tr>
<td>FMED 625</td>
<td>3</td>
<td>Qualitative Health Research</td>
</tr>
<tr>
<td>FMED 672</td>
<td>3</td>
<td>Applied Mixed Methods in Health Research</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

6 credits chosen from:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
</tr>
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<tbody>
<tr>
<td>FMED 504D1</td>
<td>.5</td>
<td>Family Medicine Research Seminars</td>
</tr>
<tr>
<td>FMED 504D2</td>
<td>.5</td>
<td>Family Medicine Research Seminars</td>
</tr>
<tr>
<td>FMED 511</td>
<td>1</td>
<td>Introduction to Art in Healthcare: Making Art Accessible</td>
</tr>
<tr>
<td>FMED 525</td>
<td>3</td>
<td>Foundations of Translational Science</td>
</tr>
<tr>
<td>FMED 601</td>
<td>3</td>
<td>Advanced Topics in Family Medicine</td>
</tr>
<tr>
<td>FMED 604</td>
<td>3</td>
<td>Advanced Participatory Research in Health</td>
</tr>
<tr>
<td>FMED 605</td>
<td>1</td>
<td>Canadian Healthcare Policy and Decision-Making</td>
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<tr>
<td>FMED 606</td>
<td>1</td>
<td>Operational Issues in Survey Methods in Primary Care</td>
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<tr>
<td>FMED 607</td>
<td>1</td>
<td>Intro to Discourse Analysis &amp; Interpretive Health Research</td>
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<tr>
<td>FMED 608</td>
<td>1</td>
<td>Advanced Mixed Methods Seminar in Health Research</td>
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<tr>
<td>FMED 610</td>
<td>2</td>
<td>Foundations of Family Medicine</td>
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<tr>
<td>FMED 611</td>
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<td>Healthcare Systems and Primary Care Reform</td>
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<tr>
<td>FMED 612</td>
<td>1</td>
<td>Evaluation Research and Implementation Science</td>
</tr>
<tr>
<td>FMED 615</td>
<td>1</td>
<td>Applied Knowledge Translation and Exchange in Health</td>
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<tr>
<td>FMED 618</td>
<td>1</td>
<td>Topics in Pharmacoeconomics, Drug Safety and Policy</td>
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<tr>
<td>FMED 619</td>
<td>3</td>
<td>Program Management in Global Health &amp; Primary Health Care</td>
</tr>
<tr>
<td>FMED 690</td>
<td>3</td>
<td>Advanced Ethnography: Context, Complexity &amp; Coordination</td>
</tr>
</tbody>
</table>

## 10.11.13.6 Master of Science (M.Sc.) Family Medicine (Thesis): Bioethics (45 credits)

The M.Sc. in Family Medicine; Bioethics is a thesis graduate program option designed to provide graduate training to those interested in studying empirical research methods and bioethics specialization.

### Required Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 680</td>
<td>3</td>
<td>Bioethical Theory</td>
</tr>
<tr>
<td>BIOE 681</td>
<td>3</td>
<td>Bioethics Practicum</td>
</tr>
<tr>
<td>BIOE 690</td>
<td>3</td>
<td>M.Sc. Thesis Literature Survey</td>
</tr>
</tbody>
</table>
The M.Sc. in Family Medicine: Medical Education option is a thesis program designed to provide research training to family physicians, and exceptionally, other health professionals, and students interested in medical education research. This M.Sc. Option will have very close ties to the Family Medicine Educational Research Group (FMER), which is the corollary of the educational innovations in teaching and research conceived and established in McGill’s Department of Family Medicine in 2005. The FMER’s ultimate goal is to advance knowledge to: (1) constantly inform family medicine curricula innovations and continuing professional development to better family physicians’ clinical practice; (2) significantly contribute to the development of the family medicine education field of inquiry, and; (3) rigorously develop and inform medical education policy. This research agenda of FMER is articulated through four interrelated streams: (1) family physicians’ professional identity formation; (2) information use and technology in the learning episodes of practicing physician and organizational learning; (3) program evaluation of educational innovations, and; (4) knowledge synthesis.

**Thesis Courses (24 credits)**

Thesis subject should be related to medical education.

- **FMED 697** (12) Master's Thesis Research 1
- **FMED 698** (12) Master's Thesis Research 2

**Required Courses (15 credits)**

- **FMED 505** (3) Basic Analysis for Health Data
- **FMED 509** (3) Foundations of Epidemiology in Family Medicine
- **FMED 600** (1) Mixed Studies Reviews
- **FMED 603** (1) Participatory Research: Patient & Public Engagement
- **FMED 616** (1) Applied Literature Reviews
- **FMED 625** (3) Qualitative Health Research
- **FMED 672** (3) Applied Mixed Methods in Health Research

**Complementary Courses (3 credits)**

3 credits from the following:

- **EDPE 555** (3) Theoretical Foundations of Learning Sciences
- **EDPE 635** (3) Theories of Learning and Instruction
- **EDPH 689** (3) Teaching and Learning in Higher Education

**Elective Courses (3 credits)**

3 credits, at the 500 level or higher, chosen in consultation with the student’s academic supervisor, specifically involving educational issues, and always relating to the student’s thesis topic within the medical education field.
10.11.14 Microbiology and Immunology

10.11.14.1 Location

Department of Microbiology and Immunology
Duff Medical Building, Room 511
3775 University Street
Montreal QC H3A 2B4
Canada
Telephone: 514-398-3061
Fax: 514-398-7052
Email: grad.microimm@mcgill.ca
Website: www.mcgill.ca/microimm

10.11.14.2 About Microbiology and Immunology

The Department offers graduate programs leading to the degrees of M.Sc. and Ph.D. Each program is tailored to fit the needs and backgrounds of individual students. The graduate program is designed to offer students state-of-the-art training, concentrating on four key areas of research:

- cellular and molecular immunology;
- microbial physiology and genetics;
- molecular biology of viruses;
- medical microbiology.

Basic research discoveries in microbiology may lead to improved drug design and vaccine development to treat and prevent diseases. The Department has many notable facilities and resources, including a cell sorter, ultra centrifuges, confocal microscope, real-time PCR facilities, cryostat for immunocytochemistry, and facilities for radio-isotope studies and infectious diseases. We foster close ties with McGill’s teaching hospitals and research centres to promote multidisciplinary research.

section 10.11.14.5: Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

The primary goal of this program is to provide students with unique opportunities to learn experimental designs and fundamental research techniques, and objectively synthesize information from scientific literature. These tools enable the students to focus on major research topics offered by the Department: molecular microbiology, mycology, microbial physiology, virology, genetics, immunology, drug design, and aspects of host-parasite relationships. Each M.Sc. student chooses their preferred major research area and research supervisor. Following an interview, the student is presented with a research topic and offered a studentship (amounts vary). Each student must register for our graduate courses (two seminars, two reading and conference courses, and three current topics). If pertinent to the student’s research program, the research adviser may advise the student to take additional courses.

Most of our students, after one year, are proficient researchers, and some first authors of a research publication. M.Sc. students may fast-track to the Ph.D. program after three terms of residency. The remaining students advance their microbiology background by opting to enter into medicine, epidemiology, biotechnology, or pharmaceutical disciplines.

section 10.11.14.6: Doctor of Philosophy (Ph.D.) Microbiology and Immunology

The primary goal of the Ph.D. program is to create a self-propelled researcher, proficient in experimental designs and advanced methodologies applicable to the varied and rapidly changing disciplines in microbiology and immunology. Close research supervision and bi-weekly laboratory sessions impart the requisite research discipline and objective assessment of acquired or published research data.

A Ph.D. student, if promoted from our M.Sc. program, without submitting the thesis, is required to register for one additional graduate seminar and one additional reading and conference course, but the bulk of his/her time is devoted to research. Other requirements include a yearly presentation of the accumulated research data to the Ph.D. supervisory committee, successfully clearing the Ph.D. comprehensive examination, two years after registration into the Ph.D. program, and finally submission of a thesis. The research theme must be original, and the acquired data and hypothesis must be defended orally by the student. Each student receives a stipend for the entire duration and a minimum six-semester residency is required for the completion of the program.

10.11.14.3 Microbiology and Immunology Admission Requirements and Application Procedures

10.11.14.3.1 Admission Requirements

Master’s

Candidates are required to hold a B.Sc. degree in microbiology and immunology, biology, biochemistry, or another related discipline; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. The minimum cumulative grade point average (CGPA) for acceptance into the program is 3.2 out of 4.0.
Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. An institutional version of the TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available.

- TOEFL Internet-Based Test (iBT): a minimum overall score of 86 (no less than 20 in each of the four components)
- TOEFL Paper-Based Test (PBT): a minimum score of 567
- IELTS: a minimum overall band score of 6.5

The TOEFL Institution Code for McGill University is 0935.

Ph.D.

Students who have satisfactorily completed an M.Sc. degree in microbiology and immunology, a biological science, or biochemistry, or highly qualified students enrolled in the departmental M.Sc. program, may be accepted into the Ph.D. program provided they meet its standards.

**10.11.1432 Application Procedures**

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

All applicants must approach academic staff members directly during or before the application process since no applicants are accepted without a supervisor.

**10.11.1432.1 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- [Supervisor Confirmation Form](http://www.mcgill.ca/gradapplicants/apply)

**10.11.1433 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Microbiology and Immunology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

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<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>May 15</td>
</tr>
</tbody>
</table>

Online applications and all required documents must be submitted prior to the application deadline.

**10.11.14 Microbiology and Immunology Faculty**

**Interim Chair**

G. Matlashewski

**Emeritus Professors**

N. Acheson, M. Baines, J.W. Coulton

**Professors**

J. Archambault; Ph.D.(Tor.)
A. Berghuis; M.Sc.(Rijks Univ. Groningen), Ph.D.(Br. Col.)
G.J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ohio)
R.A. Murgita; B.Sc.(Maine), M.S.(Vermont), Ph.D.(McG.)
M. Olivier; B.Sc.(Montr.), Ph.D.(McG.)
C. Piccirillo; B.Sc., Ph.D.(McG.)
### Professors
- D. Sheppard; M.D.(Tor.)
- M. Stevenson; M.Sc., Ph.D.(Catholic Univ. of Amer.)

### Associate Professors
- D.J. Briedis; B.A., M.D.(Johns Hop.)
- B. Cousineau; B.Sc., M.Sc., Ph.D.(Montr.)
- S. Fournier; Ph.D.(Montr.)
- J. Fritz; Ph.D.(Vienna)
- S. Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)
- H. Le Moual; Ph.D.(Montr.)
- G. T. Marczynski; B.Sc., Ph.D.(Ill.)

### Assistant Professors
- I. King; B.Sc.(Ohio St.), M.Sc.(Pitt. St.), Ph.D.(Roch.)
- C. Krawczyk; Ph.D.(Tor.)
- C. Maurice; M.S., Ph.D.(Montpellier II)
- M. Richer; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(Br. Col.)
- S. Sagan; B.Sc.(McG.), Ph.D.(Ott.)

### Associate Members
- **Epidemiology and Infectious Diseases**: M. Behr, A. Dascal, V. Loo
- **Immunology and Parasitology**: B. Brenner, M. Ndao, P. Rohrbach, B. Ward, J. Zhang
- **Microbiology**: D. Cuong Vinh, M. Divangahi, C. Liang, D. Nguyen, M. Reed
- **Molecular Biology**: N. Cermakian, S. Hussain, A. Jardim, A. Mouland, K. Pantopoulos, M. Tremblay, B. Turcotte, J. Xia
- **Virology**: A. Gatignol, A.E. Koromilas, R. Lin, T. Mesplede, J. Teodoro

### Adjunct Professors
- A. Bar-Or
- E. Cohen
- A. Descoteaux
- J.M. Di Noia
- A. Finzi
- N. Grandvaux
- G. Kukolj
- P. Lau
- S. Lesage
- S.L. Liu
- J. Madrenas
- R. Moutih
- C. Paradis-Bleau
- A. Petronela
- K. Pike
- W-K. Suh
### 10.11.14.5 Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

#### Thesis Courses (24 credits)

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<th>Course</th>
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<tr>
<td>MIMM 697</td>
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<td>MIMM 698</td>
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<tr>
<td>MIMM 699</td>
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#### Required Courses (15 credits)

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<tr>
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#### Complementary Courses (6 credits)

- Minimum 6 credits from:
  - MIMM 607 (3) Biochemical Pathology
  - MIMM 616 (3) Reading and Conference 1
  - MIMM 617* (3) Reading and Conference 2
  - MIMM 618* (3) Reading and Conference 3
  - MIMM 619* (3) Reading and Conference 4
  - NEUR 502 (3) Basic and Clinical Aspects of Neuroimmunology

- Any life sciences-related 500-level or above course (3 credits). Department approval required.

* Not offered in every academic year.

### 10.11.14.6 Doctor of Philosophy (Ph.D.) Microbiology and Immunology

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses (18 credits)

<table>
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<th>Course</th>
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<td>MIMM 713</td>
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#### Complementary Courses (9 credits)

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<tr>
<td>MIMM 617</td>
<td>3</td>
<td>Reading and Conference 2</td>
</tr>
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</table>
10.11.15 Neuroscience (Integrated Program)

10.11.15.1 Location

Montreal Neurological Institute, Room 141
3801 University Street
Montreal QC H3A 2B4
Canada
Telephone: 514-398-1905; 514-398-6243; or 514-398-1229
Fax: 514-398-4621
Email: ipn@mcgill.ca or ipn.admissions@mcgill.ca
Website: www.mcgill.ca/ipn

10.11.15.2 About the Integrated Program in Neuroscience

Montreal is home to the largest concentration of neuroscientists in North America. Neuroscience research at McGill University is internationally renowned, and its Integrated Program in Neuroscience (IPN) provides graduate training in this outstanding research environment. With approximately 340 M.Sc. and Ph.D. students and more than 230 supervisors, the IPN is the largest graduate program in the Faculty of Medicine and one of the largest neuroscience graduate programs in North America.

Neuroscience training within the IPN spans the full spectrum of research fields, from cellular and molecular neuroscience to behavioural and cognitive neuroscience. In addition to laboratory research, the IPN offers an extensive range of courses, hosts an annual Neuroscience Retreat, and maintains a seminar program to facilitate communication between students in different neuroscience disciplines. Neuroscience trainees from McGill have gone on to successful careers in academia and industry.

A prospective graduate student may identify a supervisor from one of several research streams, spanning the full spectrum of neuroscience research. A student with a bachelor's degree may apply to the M.Sc. program; it is common to transfer to the Ph.D. program if suitable progress is made. Students with M.Sc. degrees may apply directly to the Ph.D. program. IPN also offers a Ph.D. Rotation program each September.

GENERAL

1. Students must select an Advisory Committee, in conjunction with their thesis supervisor. This committee will consist of the thesis supervisor and two other individuals who will participate in discussions with students about their research program.

2. All Ph.D. students are required to complete a candidacy examination before the end of Ph.D. 3. The exam serves to evaluate the students' ability to perform original scholarship and to demonstrate their suitability for a Ph.D. degree. An M.Sc. student may be eligible to transfer to the Ph.D. program without submitting a master's thesis by taking the Transfer Seminar/Candidacy Exam. This exam is allowed if the master's CGPA is 3.3 or higher and if the student's Advisory Committee recommends the student as an appropriate candidate for Ph.D. studies. M.Sc. students who wish to pursue a Ph.D. degree, but who have not obtained the minimum 3.3 CGPA in their M.Sc. coursework while in the IPN, must submit a master's thesis and apply for the Ph.D. level afterwards.

3. Students are required to submit a written thesis proposal (18 months after the start of the program for M.Sc. students, and at least one month prior to the candidacy exam for Ph.D. students). This document must state the hypothesis being tested, the relevant literature, and a summary of the methods that will be used to address the research question. This proposal will then be orally presented to the student's Advisory Committee, which will review the written proposal and communicate its recommendations to the student.

4. Students will present a formal seminar on their research work prior to writing their thesis. This presentation will be attended by the student's Advisory Committee who will report their impressions and recommendations to the student.

5. Before final thesis submission, Ph.D. students must successfully complete an oral defence, which is a final, in-depth, formal presentation of their research.

6. An annual oral informal presentation of research work accomplished will be presented to the student's Advisory Committee.

7. The Graduate Program Committee has instituted a mentorship program by which each student will be matched with a specific member of the Committee. The Program Mentor ensures that the student, the supervisor(s), and other members of the Advisory Committee are aware of and meet key milestones, in a timely manner, throughout the course of the student's graduate study.

8. All incoming students are required to take the workshops on Responsible Conduct of Research. These will be included as part of the milestones for annual progress reports.

section 10.11.15.5: Master of Science (M.Sc.) Neuroscience (Thesis) (45 credits)

The M.Sc. program offers opportunities to a great diversity of individual interests and backgrounds, and prepares our students for scientific careers in neuroscience and related fields. Programs leading to an M.Sc. degree require the completion of intensive academic and research training.
The IPN offers a highly competitive Ph.D. degree program that prepares students for successful scientific careers in the field of neuroscience. Over half of the students registered in the neuroscience graduate program at McGill University are in the doctoral stream.

10.11.15.3 Neuroscience (Integrated Program) Admission Requirements and Application Procedures

Admission Requirements

General

Applicants must hold a bachelor's degree, or its equivalent, from a recognized institution in a field related to the subject selected for graduate work, and must display an adequate background in basic sciences.

The applicant must present evidence of high academic achievement. A standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 is required by Graduate and Postdoctoral Studies; however, the Integrated Program in Neuroscience (IPN) prefers applicants to show a higher academic standing, and requires a minimum CGPA of 3.3.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit results of the TOEFL exam with their application and have a minimum score of 86 on the Internet-based test (iBT; 567 on the paper-based test [PBT]) with each component score not less than 20.

M.Sc. Degree

Bachelor's degree with adequate background in basic sciences, or an M.D.

Ph.D. Degree

Applicants must hold a graduate-level degree in a field related to neuroscience or have an M.D. degree, preferably with postgraduate training. Applicants will also be considered for admission if enrolled in the: Doctor of Medicine & Master of Surgery with Ph.D. (Joint M.D., C.M. & Ph.D.) program through the Faculty of Medicine at McGill University.

Students currently registered in the Master's in Neuroscience may be permitted to transfer to the Ph.D. program without submitting a master's thesis. Applicants are expected to have attained a high scholastic standing equal to, or greater than, the minimum cumulative grade point average of 3.3 out of 4.0 in all levels of study. In exceptional circumstances, a student may enter the Ph.D. program directly from their undergraduate degree if a CGPA of 3.7 is attained and if the student already presents extensive research experience.

Applicants are expected to have a high academic standing in their previous academic studies and research.

To meet the diversity of individual interests and backgrounds, the graduate program for each student is designed at the time of entry. As part of the admission process, each applicant will identify, with the participation of the prospective thesis supervisor and the Graduate Studies Committee, a research thesis topic and the coursework required to complete the training deemed necessary for the degree. These decisions become an integral part of the graduation requirements for the student.

Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Personal Statement

Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the IPN and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
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<th>Application Opening Dates</th>
<th>Application Deadlines</th>
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<td>All Applicants</td>
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<tr>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
<td>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</td>
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<tr>
<td>Fall Term:</td>
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<tr>
<td>Sept. 15</td>
<td>March 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td></td>
</tr>
<tr>
<td>Feb. 15</td>
<td>Sept. 10</td>
</tr>
</tbody>
</table>
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 10.11.15.4 Neuroscience (Integrated Program) Faculty

#### Director

J. Rochford

#### Associate Director

E. Ruthazer

#### Emeritus Professors

- B. Collier; Ph.D. (Dept. of Pharmacology)
- M. Diksic; Ph.D. (Dept. of Neurology and Neurosurgery)
- K. Franklin; Ph.D. (Dept. of Psychology)
- P.C. Holland; B.A.(Lanc.), Ph.D.(Newcastle, UK) (Dept. of Neurology and Neurosurgery)
- C. Thompson; D.Sc., F.C.C.P.M. (Dept. of Neurology and Neurosurgery)
- N. White; B.A.(McG.), Ph.D.(Pitt.) (Dept. of Psychology)

#### Professors

- A. Aguayo; M.D.(Cordoba Nat.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
- G. Almazan; B.Sc.(N'eastern), Ph.D.(McG.) (Dept. of Pharmacology and Therapeutics)
- E. Andermann; M.D.,C.M., M.Sc., Ph.D.(McG.), F.C.C.M.G. (Dept. of Neurology and Neurosurgery)
- F. Andermann; B.A., B.Sc.(McG.), M.D.(Montr.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
- J. Antel; M.D., B.Sc.(Med.)(Manit.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
- D. Arnold; B.Sc., M.D.(Cornell), F.R.C.P.(C) (James McGill Professor) (Dept. of Neurology and Neurosurgery)
- M. Avoli; M.D.(Rome), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
- S. Baillet; Ph.D.(Paris XI) (Dept. of Neurology and Neurosurgery)
- C. Baker; Ph.D.(Calif.-San Diego) (Dept. of Ophthalmology)
- P. Barker; Ph.D.(Alta.), B.Sc.(S. Fraser) (Dept. of Neurology and Neurosurgery)
- A. Bar-Or; M.D.,C.M.(McG.), F.R.C.P.(C), D.A.B.N.P. (Dept. of Neurology and Neurosurgery)
- S. Baum; Ph.D.(Brown) (School of Communication Sciences and Disorders)
- G. Bennett; Ph.D.(Virg. Commonwealth) (Dept. of Anesthesia)
- D. Bernard; Ph.D. (Johns Hop.) (Dept. of Pharmacology)
- A. Bernasconi; M.D.(Basel) (Dept. of Neurology and Neurosurgery)
- P. Boksa; Ph.D.(McG.) (Dept. of Psychiatry)
- C. Bourque; B.Sc.(Ott.), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
- D. Bowie; Ph.D.(Lond.) (Dept. of Pharmacology and Therapeutics)
- P. Braun; Ph.D.(Calif., Berk.) (Dept. of Biochemistry)
- J.C.S. Breitner; M.D.(Penn.), MPH (Johns Hop.) (Dept. of Psychiatry)
- C. Bushnell; Ph.D.(Amer.) (Dept. of Anaesthesia)
- S. Carbonetto; M.Sc.(Mass.), Ph.D.(N. Carolina) (Dept. of Neurology and Neurosurgery)
**Professors**

F. Cervero; M.D., Ph.D.(Madrid), D.Sc.(Edin.) (*Dept. of Anesthesia*)

H. Chertkow; M.D.(W. Ont.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

P. Clarke; M.A.(Camb.), Ph.D.(Lond.) (*Dept. of Pharmacology and Therapeutics*)

T. Codere; Ph.D.(McG.) (*Depts. of Anesthesia, Neurology and Neurosurgery, Psychology, and Experimental Medicine*)

D.L. Collins; M.Eng., Ph.D.(McG.) (*Depts. of Neurology and Neurosurgery, Biomedical Engineering*)

E. Cooper; Ph.D.(McM.) (*Dept. of Physiology*)

C. Cuello; M.D.(Buenos Aires), M.A., D.Sc.(Oxf.) (*Dept. of Pharmacology and Therapeutics*)

K. Cullen; Ph.D.(Chic.) (*Dept. of Physiology*)

S. Daniel; M.D.,C.M., M.Sc.(McG.) (*Dept. of Otolaryngology – Head and Neck Surgery*)

S. David; Ph.D.(Manit.) (*Dept. of Neurology and Neurosurgery*)

R. Del Maestro; Ph.D.(Uppsala) (*Dept. of Neurology and Neurosurgery*)

L. Diatchenko; M.D., Ph.D.(RNRMU) (*Dept. of Anesthesia, Faculties of Dentistry and Medicine*)

H. Durham; M.Sc.(W. Ont.), Ph.D.(Alta) (*Dept. of Neurology and Neurosurgery*)

S. El Mestikawy; Ph.D.(Paris VI) (*Dept. of Psychiatry*)

A. Evans; M.Sc.(Sur.), Ph.D.(Leeds) (*Dept. of Neurology and Neurosurgery*)

L. Fellows; B.Sc.(McG.), D.Phil.(Oxf.), M.D.,C.M.(McG.) (*Dept. of Neurology and Neurosurgery*)

C. Flores; Ph.D.(C’dia) (*Dept. of Psychiatry*)

E. Fon; M.D.(Montr.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

S.G. Gauthier; B.A., M.D.(Montr.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

B. Giros; M.Sc., Ph.D.(Paris VI) (*Dept. of Psychiatry*)

J. Gotman; M.Eng.(Dart.), Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

V. Gracco; Ph.D.(Wisc.) (*School of Communication Sciences and Disorders*)

A. Gratton; Ph.D.(C’dia) (*Dept. of Psychiatry*)

J. Grodzinsky; Ph.D.(Brandeis) (*Dept. of Linguistics*)

D. Guittton; Dipl. IVK(Univ. Libre de Brux.), B.Eng., M.Eng., Ph.D.(Eng.), Ph.D.(Physiol.)(McG.) (*Dept. of Neurology and Neurosurgery*)

D. Haegert; M.D.(Br. Col.), F.R.C.P.(C) (*Dept. of Pathology*)

E. Hamel; B.Sc.(Sher.), Ph.D.(Montr.) (*Dept. of Neurology and Neurosurgery*)

K. Hastings; B.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

R.T. Hepple; Ph.D.(Tor.) (*Dept. of Kinesiology and Physical Education*)

R. Hess; Ph.D.(Melb.), D.Sc.(Aston, UK) (*Dept. of Ophthalmology*)

B. Jones; B.A., M.A., Ph.D.(Delaware) (*Dept. of Neurology and Neurosurgery*)

M. Jones-Gotman; B.A.(Calif.), M.A., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

T. Kennedy; B.Sc.(McM.), Ph.D.(Col.) (*Dept. of Neurology and Neurosurgery*)

B. Kieffer; Ph.D.(Strasbour) (*Dept. of Psychiatry*)

F. Kingdom; Ph.D.(Reading) (*Dept. of Ophthalmology*)

P. Lachapelle; Ph.D.(Montr.) (*Dept. of Ophthalmology*)

N. Lamarche; Ph.D.(Montr.) (*Dept. of Anatomy and Cell Biology*)

A. LeBlanc; M.Sc.(Moncton), Ph.D.(Dal.) (*Dept. of Neurology and Neurosurgery*)

M.F. Levin; Ph.D.(P.T.)(McG.) (*School of Physical and Occupational Therapy*)

M. Leyton; M.A., Ph.D.(C’dia) (*Dept. of Psychiatry*) (*William Dawson Scholar*)

G. Luhenishi; Ph.D.(Newcastle, UK) (*Dept. of Psychiatry*)
Professors

D. Maysinger; M.Sc., Ph.D.(Calif.-LA) (Dept. of Pharmacology and Therapeutics)
H.M. McBride; Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
P.S. McPherson; M.Sc.(Manit.), Ph.D.(Iowa) (James McGill Professor) (Dept. of Neurology and Neurosurgery)
M.I. Meaney; B.A.(Loyola), M.A., Ph.D.(C'dia.) (Dept. of Psychiatry)
B. Milner; B.A., Sc.D.(Cant.), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
T.E. Milner; B.Sc., M.Sc., Ph.D.(Alta.) (Dept. of Kinesiology and Physical Education)
J.S. Mogil; Ph.D.(Calif.-LA) (Dept. of Psychology)
K. Mullen; Ph.D.(Camb.) (Dept. of Ophthalmology)
G. Multhaup; Ph.D.(Cologne) (Dept. of Pharmacology and Therapeutics)
A. Olivier; M.D.(Montr.), Ph.D.(Laval), F.R.C.S.(C) (Dept. of Neurology and Neurosurgery)
D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.) (Dept. of Psychology)
O. Overbury; Ph.D.(C’dia) (Dept. of Ophthalmology)
C. Palmer; B.Sc., M.Sc., Ph.D.(Cornell) (Dept. of Psychology)
M. Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.) (School of Communication Sciences and Disorders)
M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.) (James McGill Professor) (Depts. of Neurology and Neurosurgery, Psychology)
G. Plourde; M.D.(Laval), M.Sc.(Ott.) (Dept. of Anesthesia)
J. Poirier; Ph.D.(Montr.) (Dept. of Psychiatry and Medicine)
A. Pito; Ph.D.(Montr.) (Dept. of Neurology and Neurosurgery)
M. Rasminsky; B.A.(Tor.), M.D.(Harv.), Ph.D.(Lond.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
A. Ribeiro-da-Silva; M.D., Ph.D.(Porto) (Dept. of Pharmacology and Therapeutics)
R.J. Riopelle; M.D.(Ott.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
A. Sadikot; M.D., C.M.(McG.), Ph.D.(Laval), F.R.C.S.(C) (Dept. of Neurology and Neurosurgery)
H.U. Saragovi; Ph.D.(Miami) (Dept. of Pharmacology and Therapeutics)
H. Schipper; M.D., Ph.D.(McG.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
G. Sebire; M.D., Ph.D.(Paris VI) (Dept. of Pediatrics)
T. Shultz; M.Phil., Ph.D.(Yale) (Dept. of Psychology)
P. Seguela; Doct. 3e Cycle(Bord.), Ph.D.(Montr.) (Dept. of Neurology and Neurosurgery)
M. Shevell; B.Sc., M.D.(Vanderbilt) (Dept. of Neurology and Neurosurgery)
E. Shoubridge; M.Sc., Ph.D.(Br. Col.) (Dept. of Neurology and Neurosurgery)
W. Sossin; B.S.(MIT), Ph.D.(Stan.) (Dept. of Neurology and Neurosurgery)
L. Srivastava; Ph.D.(J. Nehru) (Dept. of Psychiatry)
S. Stifani; D.Chem.(Rome), Ph.D.(Alta.) (Dept. of Neurology and Neurosurgery)
M. Sullivan; B.A.(McG.), M.A., Ph.D.(C’dia) (Dept. of Psychology)
G. Tannenbaum; M.Sc., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY) (Dept. of Psychology)
G. Turecki; M.D.(Fed. Univ. São Paulo), Ph.D.(McG.) (Dept. of Psychiatry)
C.-D. Walker; Ph.D.(Geneva) (Dept. of Psychology)
C. Wolfson; Ph.D.(McG.) (Dept. of Epidemiology and Biostatistics)
R.J. Zatorre; A.B.(Boston), M.Sc., Ph.D.(Brown) (Dept. of Neurology and Neurosurgery)
D. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.) (Dept. of Psychology)
Associate Professors

P. Archambault; B.Sc.(McG.), M.Sc., Ph.D.(Montr.) (Dept. of Physical and Occupational Therapy)
J. Armony; Ph.D.(NYU) (Dept. of Psychiatry)
E. Balabani; Ph.D.(Rockefeller) (Dept. of Psychology)
S. Beaulieu; M.D., Ph.D., F.R.C.P.(C) (Dept. of Psychiatry)
V. Bobbot; Ph.D.(Ariz.) (Dept. of Psychiatry)
D. Boivin; M.D.(Laval), Ph.D.(Montr.) (Dept. of Psychiatry)
A. Brunet; Ph.D.(Montr.) (Dept. of Psychiatry)
M. Cayouette; M.Sc., Ph.D.(Laval) (Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine)
N. Cermakian; Ph.D.(Montr.) (Dept. of Psychiatry)
M.J. Chacron; B.Sc., Ph.D.(Ott.) (Dept. of Physiology)
Y. Chudasama; B.Sc., Ph.D.(Cardiff) (Dept. of Psychology)
F. Charron; B.Sc., Ph.D.(McG.) (Institut de Recherches Clinique de Montreal, Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine)
J.-F. Cloutier; B.Sc.(C’dia), Ph.D.(McG.) (Depts. of Neurology and Neurosurgery, and Anatomy and Cell Biology)
E. Cook; B.Sc.(Ariz. St.), M.Sc.(Rice), Ph.D.(Baylor) (Dept. of Physiology)
A. Dagher; M.Eng.(McG.), M.D.(Tor.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
B. Debruille; M.D.(Paris XI), Ph.D.(Paris VI) (Dept. of Psychiatry)
C. Flores; Ph.D.(C’dia) (Dept. of Psychiatry)
A. Fournier; B.Sc., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
I. Gold; B.A.(McG.), Ph.D.(Princ.) (Dept. of Psychiatry)
R. Gruber; Ph.D.(Tel Aviv) (Dept. of Psychiatry)
R.D. Hoge; Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
R. Joober; M.D.(Tunisia), Ph.D.(McG.) (Dept. of Psychiatry)
D. Juncker; Dipl., Ph.D.(Neuchâtel) (Dept. of Biomedical Engineering)
A. Kania; Ph.D.(Baylor) (Depts. of Biology, Anatomy and Cell Biology, and Experimental Medicine)
S. King; B.A.(McG.), M.Ed., Ed.S.(James Madison Univ.), Ph.D.(Virginia Tech) (Dept. of Psychiatry)
B. Knauper; Dr.Phil.(Mannheim) (Dept. of Psychology)
A. Lamontagne; Ph.D.(Laval) (School of Physical and Occupational Therapy)
A. McKinney; Ph.D.(Ulster) (Dept. of Pharmacology and Therapeutics)
N. Mechawar; Ph.D.(Montr.) (Dept. of Psychiatry)
J. Mendola; Ph.D.(MIT) (Dept. of Ophthalmology)
K. Murai; Ph.D.(Calif.) (Dept. of Neurology and Neurosurgery)
K. Nader; B.Sc., Ph.D.(Tor.) (Dept. of Psychology)
J. Nalbantoglu; B.Sc., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
C. Pack; B.Sc.(Tufts), Ph.D.(Boston) (Dept. of Neurology and Neurosurgery)
H. Paudel; Ph.D.(Okla.), M.Sc.(Nepal) (Dept. of Neurology and Neurosurgery)
A. Peterson; B.Sc.(Vic., BC), Ph.D.(Br. Col.) (Dept. of Neurology and Neurosurgery)
K. Petrecca; B.Sc., M.D., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
M. Pompeiano; M.D.(Pisa), Ph.D.(Scuola Sup. Pisa) (Dept. of Psychology)
J.C. Pruessner; Ph.D.(Trier) (Depts. of Psychiatry, Psychology, Neurology, and Neurosurgery)
D. Ragsdale; B.S.(Ill.), Ph.D.(Calif.) (Dept. of Neurology and Neurosurgery)
N. Rajah; Ph.D.(Tor.) (Dept. of Psychiatry)
Y. Rao; B.Sc.(Sichuan), Ph.D.(Tor.) (Dept. of Neurology and Neurosurgery)
### Associate Professors

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<thead>
<tr>
<th>Name</th>
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<th>Department</th>
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<td>A. Raz</td>
<td>M.Sc., Ph.D.(Hebrew)</td>
<td>Dept. of Psychiatry</td>
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<td>A. Reader</td>
<td>Ph.D.(King's Coll., Lond.)</td>
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<td>J. Rochford</td>
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<td>B. Rosenblatt</td>
<td>B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<tr>
<td>E. Ruthazer</td>
<td>A.B.(Princ.), Ph.D.(Calif.-SF)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<td>R. Schirrmacher</td>
<td>Ph.D.(Mainz)</td>
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<td>A. Shmuel</td>
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<td>D. Stellwagen</td>
<td>B.Sc.(Brown), Ph.D.(Calif.)</td>
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<td>L. Stone</td>
<td>Ph.D.(Minn.)</td>
<td>Dept. of Dentistry</td>
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<tr>
<td>K.-F. Storch</td>
<td>Ph.D.(Max Planck)</td>
<td>Dept. of Psychiatry</td>
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<td>A. Thiel</td>
<td>Ph.D.(Cologne), M.D.(Bonn)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<td>D. Van Meyel</td>
<td>Ph.D.(W. Ont.)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<tr>
<td>S. Williams</td>
<td>Ph.D.(Montr.)</td>
<td>Dept. of Psychiatry</td>
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### Assistant Professors

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<td>A. Adamantidis</td>
<td>M.Sc., Ph.D.(Liege)</td>
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<tr>
<td>B. Bedell</td>
<td>B.S.(Leigh), M.D.,C.M.(McG.), Ph.D.(Texas)</td>
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<td>F. Bedford</td>
<td>Ph.D.(Lond.)</td>
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<td>M. Berlim</td>
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<td>M-H. Boudrias</td>
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<td>M. Brandon</td>
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<td>J.P. Britt</td>
<td>Ph.D.(Chic.)</td>
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<td>M. Brodeur</td>
<td>Ph.D.(McM.)</td>
<td>Dept. of Psychiatry</td>
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<td>M. Chakravarty</td>
<td>B.Eng.(Wat.), M.Eng., Ph.D.(McG.)</td>
<td>Dept. of Psychiatry</td>
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<td>B. Chen</td>
<td>Ph.D.(SUNY)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<td>E. de Villers-Sidani</td>
<td>M.D.(McG.)</td>
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<td>M. Elsabbagh</td>
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<td>C. Ernst</td>
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<td>Dept. of Psychiatry</td>
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<td>R. Farivar</td>
<td>B.Sc.(Vic., BC), Ph.D.(McG.)</td>
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<td>C. Grova</td>
<td>Ph.D.(Rennes)</td>
<td>Depts. of Biomedical Engineering &amp; Neurology</td>
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<td>P. Haghighi</td>
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<td>A. Hendricks</td>
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<td>Dept. of Bioengineering</td>
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<td>M. Hendricks</td>
<td>B.A.(Bowdoin), Ph.D. (Sing.)</td>
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<td>F. Jollant</td>
<td>M.D., M.Sc., Ph.D.(Montpellier)</td>
<td>Dept. of Psychiatry</td>
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<td>D. Klein</td>
<td>B.A., Ph.D.(Witw./S. Af.)</td>
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<td>E. Kobayashi</td>
<td>M.D., Ph.D.(Campinas State)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<tr>
<td>M. Kokoeva</td>
<td>Ph.D.(Russian Acad. of Sci.)</td>
<td>Faculty of Medicine</td>
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<td>L. Koski</td>
<td>B.Sc.(Tor.), Ph.D.(McG.)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<tr>
<td>A. Kostikov</td>
<td>Ph.D.(Georgia)</td>
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<tr>
<td>N. Ladbon-Bernasconi</td>
<td>M.D.(Lausanne), Ph.D.(McG.)</td>
<td>Dept. of Neurology and Neurosurgery</td>
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<tr>
<td>A. Lamontagne</td>
<td>Ph.D.(Laval)</td>
<td>School of Physical and Occupational Therapy</td>
</tr>
</tbody>
</table>
### Assistant Professors

- G. Leonard; Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)
- W. Ma; M.D.(Tongji), M.Sc., Ph.D.(McG.) (*Dept. of Psychiatry*)
- J. Marcoux; M.Sc., M.D.(Montr.) (*Dept. of Neurology and Neurosurgery*)
- G. Mitsis; Dipl.(Nat. Tech., Athens), M.Sc., Ph.D.(USC) (*Dept. of Bioengineering*)
- L. Münter; Ph.D.(Berlin) (*Dept. of Pharmacology and Therapeutics*)
- P. Rosa-Neto; M.D., M.Sc.(UFRGS), Ph.D.(Aarhus) (*Depts. of Neurology and Neurosurgery, Psychiatry*)
- J.T. Sakata; B.A.(Cornell), Ph.D.(Texas-Austin) (*Dept. of Biology*)
- P. Schweinhardt; M.D.(Heidelberg), Ph.D.(Oxf.) (*Dentistry, Dept. of Neurology and Neurosurgery*)
- R. Sharif; Ph.D.(McG.) (*Dept. of Physiology*)
- D. Sinclair; B.Sc., Ph.D.(Dal.) (*Dept. of Neurology and Neurosurgery*)
- P.J. Sjostrom; M.Sc.(Uppsala), Ph.D.(Brandeis) (*Dept. of Neurology and Neurosurgery*)
- K. Steinhauer; M.Sc., Ph.D.(Dr rer. nat)(Free Univ., Berlin) (*School of Communication Sciences and Disorders*)
- T. Stroh; Dip.(J. Liebig Univ. Giessen), Ph.D.(Max Planck) (*Dept. of Neurology and Neurosurgery*)
- V. Sziklas; Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)
- T. Taivassalo; B.Sc., Ph.D.(McG.) (*Dept. of Kinesiology and Physical Education*)
- H. Takahashi; M.D., Ph.D.(Gunma), (*IRCM, Dept. of Experimental Medicine*)
- H. Tsuda; M.D.(Kobe), Ph.D.(Kyoto) (*Dept of Neurology and Neurosurgery*)
- M. Vollrath; Ph.D.(Baylor) (*Dept of Neurology and Neurosurgery*)
- A. Watt; Ph.D.(Brandeis) (*Dept of Biology*)
- P. Wintermark; M.D.(Lausanne) (*Dept of Pediatrics*)
- S.C. Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin) (*Dept of Biology*)
- T.P. Wong; Ph.D.(McG.) (*Dept of Psychiatry*)
- J. Zhang; M.D.(Shanghai II Medical U.), M.Sc.(Paris XI), Ph.D.(Laval) (*Dept of Neurology and Neurosurgery*)

### Lecturer

- S. Antel

### Adjunct Professors

- G. Duncan
- M. Ptito
- E. Racine; B.A.(Ott.), M.A., Ph.D.(Montr.) (*Dept. of Neurology and Neurosurgery*)

### 10.11.15.5 Master of Science (M.Sc.) Neuroscience (Thesis) (45 credits)

#### Required Courses (36 credits)

- **NEUR 696** (6)  Master's Thesis Research
- **NEUR 697** (9)  Master's Thesis Proposal
- **NEUR 698** (9)  Master's Seminar Presentation
- **NEUR 699** (12) Master's Thesis Submission
- **NEUR 705** (0)  Responsible Research Conduct

#### Complementary Courses (9 credits)

3 credits from the following:
And 6 credits in other courses at the 500 level or higher that are relevant to the program.

Upon recommendation, depending upon their particular background and needs, students may be requested to take additional selected courses at the 500 level or higher.

Note: All M.Sc.-level students must register for a minimum of 12 credits per term during the first three terms of their master's program.

**10.11.15.6 Doctor of Philosophy (Ph.D.) Neuroscience**

Students with an M.Sc. degree continuing in this Department will receive credit exemptions for graduate coursework accomplished (including NEUR 630 or NEUR 631). It may be recommended that they take specialty courses related to their field of study in neuroscience. Students with an M.Sc. degree from another program will be required to take NEUR 630 and NEUR 631 and/or other courses listed under the M.Sc. degree depending upon their background and field of study.

Students with an M.D. degree proceeding directly into a Ph.D. program will be required to take NEUR 630 and NEUR 631. They will also be required to take 6 credits of graduate-level courses.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (6 credits)**

- NEUR 630 (3) Principles of Neuroscience 1
- NEUR 631 (3) Principles of Neuroscience 2
- NEUR 700 (0) Doctoral Candidacy Examination
- NEUR 705 (0) Responsible Research Conduct

**Complementary Courses (6 credits)**

6 credits at the 500, 600, or 700 level, approved by the graduate program adviser.

**10.11.16 Occupational Health**

**10.11.16.1 Location**

Department of Epidemiology, Biostatistics and Occupational Health
Purvis Hall
1020 Pine Avenue West
Montreal QC H3A 1A2
Canada
Telephone: 514-398-6258
Email: graduate.eboh@mcgill.ca
Website: www.mcgill.ca/epi-biostat-occh

**10.11.16.2 About Occupational Health**

The Department offers two graduate degree programs: a master's (M.Sc.A.) and doctoral (Ph.D.) in occupational health sciences. The master's program is available on campus or in distance education format. Special Student status is encouraged for students who wish to take only specific courses from our M.Sc. program, but there is a maximum of 12 credits overall, with a maximum of 6 credits per semester, for those with Special Student status.

Students are required to have access to a computer and the Internet, as some of the course material is most readily available online.

**Note:** We are not accepting applications for the Occupational Health M.Sc.A. (Distance) or Ph.D. programs until further notice.
section 10.11.16.5: Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Resident) (45 credits)

A three-term program leading to the degree of Master of Science (Applied) (M.Sc.A.) in Occupational Health Sciences, appropriate for graduates from engineering and basic sciences, physicians, and nurses. Occupational health training allows candidates to evaluate work environments and reduce or eliminate work hazards using prevention and control.

section 10.11.16.6: Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Distance) (45 credits)

This program is not currently accepting applicants.

A three-and-a-half-year program completed mostly over the Internet.

section 10.11.16.7: Doctor of Philosophy (Ph.D.) Occupational Health

This program is not currently accepting applicants.

The objective of this program is to train independent researchers in the field of work environment and health.

10.11.16.3 Occupational Health Admission Requirements and Application Procedures

10.11.16.3.1 Admission Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English by appropriate exams, e.g., TOEFL (Test of English as a Foreign Language) with a minimum score of 86 on the Internet-based test (iBT), with each component score not less than 20.

M.Sc. Applied Program (Resident) (on campus)

Candidates should have completed, with a standing equivalent to a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0, one of the requisites below:

- a Bachelor of Science degree or its equivalent, in a discipline relevant to occupational health or hygiene such as chemistry, engineering, environmental sciences, or physics
- an M.D. (medicine)
- a B.Sc. in health sciences or nursing

Distance Education

Note: We are not accepting applications for the Occupational Health Distance program until further notice.

Candidates should have completed, with a standing equivalent to a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0, one of the requisites below:

- a Bachelor of Science degree, or its equivalent, in a discipline relevant to occupational health or hygiene such as chemistry, engineering, environmental sciences, or physics
- an M.D. (medicine)
- a B.Sc. in health sciences or nursing

Candidates should have at least three years of experience in industrial hygiene and/or in safety.

For medical doctors and nurses, priority will be given to candidates with at least three years of experience in occupational health.

Ph.D. Program

Note: We are not accepting applications for the Occupational Health Ph.D. program until further notice.

Candidates must hold an M.Sc. degree or its equivalent in occupational health sciences, or in a relevant discipline, such as: community health, environmental health, epidemiology, chemistry, engineering, physics, or health sciences (medicine, nursing, etc.).

10.11.16.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Resident (on campus)
Applications are considered for Fall term only. Applications for Winter/Summer term admission will not be considered, with the exception of admission as Special Students in the Winter term.

**Distance Education**

Students are required to have access to a computer and the Internet as the course material is available through the web.

**Ph.D. Program**

Each student will be assigned to one academic staff member of the Department, who will act as his/her supervisor, and who will guide him/her in the preparation of a definite research protocol.

**10.11.16.3 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- **M.Sc. Applied (Resident)**
  - Curriculum Vitae
  - Personal Statement

- **M.Sc. Applied (Distance Education)**
  - Curriculum Vitae
  - Personal Statement

- **Ph.D. Program**
  - Curriculum Vitae
  - Personal Statement
  - Research Proposal

**10.11.16.3.3 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Epidemiology, Biostatistics and Occupational Health and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

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<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
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<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** Applications for Winter/Summer term admission will not be considered, with the exception of admission as Special Students in the Winter term.

**10.11.16.4 Occupational Health Faculty**

Please see [section 10.11.7.3: Epidemiology, Biostatistics and Occupational Health Faculty](#).

**10.11.16.5 Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Resident) (45 credits)**

**Research Project (15 credits)**

OCCH 699 (15) Project Occupational Health and Safety

**Required Courses (30 credits)**

Note: Students must pass the Master's Integrative Examination (OCCH 600) before writing their Project.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
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<tr>
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<td>OCCH 602</td>
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<td>Work and Environment Epidemiology 1</td>
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<td>OCCH 604</td>
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<td>Biological Hazards</td>
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<td>OCCH 612</td>
<td>3</td>
<td>Principles of Toxicology</td>
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<tr>
<td>OCCH 616</td>
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<td>Occupational Hygiene</td>
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10.11.16.6 Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Distance) (45 credits)

**This program is currently not accepting applicants.**

**Research Project (15 credits)**

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<th>Course Title</th>
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<tr>
<td>OCCH 699</td>
<td>15</td>
<td>Project Occupational Health and Safety</td>
</tr>
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</table>

**Required Courses (30 credits)**

Note: Students must pass the Master's Integrative Examination (OCCH 600) before writing their Project.

Each course has a final (proctored) examination at the end of the term.

<table>
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<tr>
<th>Course Code</th>
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<th>Course Title</th>
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<td>Occupational Health Practice</td>
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<td>Work and Environment Epidemiology 1</td>
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<td>3</td>
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<td>OCCH 616</td>
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<td>OCCH 617</td>
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<td>OCCH 624</td>
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<td>Social and Behavioural Aspects - Occupational Health</td>
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<td>Work Physiology and Ergonomics</td>
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<tr>
<td>OCCH 635</td>
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<td>Environmental Risks to Health</td>
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On-campus practicum may be held at the discretion of each professor. These sessions are held in Montreal on the McGill University campus. Their aim is to offer students additional specific learning activities. Participation in the practicum is an essential component of the program.

10.11.16.7 Doctor of Philosophy (Ph.D.) Occupational Health

**This program is currently not accepting applicants.**

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.
The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (2 credits)**

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<td>OCCH 706</td>
<td>(2)</td>
<td>Ph.D. Seminar on Occupational Health and Hygiene</td>
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</tbody>
</table>

Students are encouraged to take up to 12 credits in areas pertinent to their specialty or in areas necessary to complete their knowledge of occupational health.

### 10.11.17 Otolaryngology – Head and Neck Surgery

#### 10.11.17.1 Location

Department of Otolaryngology – Head and Neck Surgery  
Jewish General Hospital  
3755 Chemin de la Côte-Sainte-Catherine, Suite E-903  
Montreal QC H3T 1E2  
Canada  
Telephone: 514-340-8222, ext. 23179  
Fax: 514-340-7934  
Website: [www.mcgill.ca/ent](http://www.mcgill.ca/ent)

#### 10.11.17.2 About Otolaryngology – Head and Neck Surgery

The Master of Science degree in Otolaryngology trains otolaryngologists and physicians for clinical or basic science research in Otolaryngology – Head and Neck Surgery. Master's programs can include research on normal function and disease of head and neck structures: otology, neuro-otology, laryngology, rhinology, oncology, surgery, auditory-vestibular sciences, middle-ear modelling, oto-toxicity, genomics, infection, thyroid disease, or genetics.

**section 10.11.17.5: Master of Science (M.Sc.) Otolaryngology (Thesis) (45 credits)**

The master's program is intended for otolaryngologists or for physicians with a strong interest in otolaryngology research. Under exceptional circumstances, others (Ph.D.s, dentists, veterinarians, medical professionals, etc.) may be considered. The program addresses research questions using an interdisciplinary approach, combining methodologies of both the clinical sciences and the basic sciences. The master's program is unique in Canada and rare elsewhere. Medical professionals graduating from the program can better treat ear-nose-throat diseases; they are better positioned to do, and to evaluate, research in Otolaryngology. They typically obtain the most highly sought positions in their fields.

#### 10.11.17.3 Otolaryngology Admission Requirements and Application Procedures

**10.11.17.3.1 Admission Requirements**

Admission to the M.Sc. program requires acceptance by a research supervisor, and the proposed program must be approved by the Department. Applicants should be otolaryngologists, or they should be currently enrolled in a residency program leading to certification in Otolaryngology, or they should be physicians. Under exceptional circumstances, others (Ph.D.s, dentists, veterinarians, medical professionals, etc.) may be considered with a strong interest in Otolaryngology Research will be considered.

The results of the Test of English as a Foreign Language (TOEFL) (minimum of 86 on the Internet-based test [iBT] with each component score not less than 20 or 567 on the paper-based test [PBT]) is required for applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone).

**10.11.17.3.2 Application Procedures**

McGill's online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

Prospective students should contact research supervisors individually.

**10.11.17.3.2.1 Additional Requirements**

- Curriculum Vitae
- Personal Statement
• Acceptance by a research supervisor

10.11.17.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Otolaryngology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.cagps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
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<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
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<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>May 15</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.17.4 Otolaryngology – Head and Neck Surgery Faculty

Chair
N. Sadeghi

Graduate Program Director and Director of Research
B. Segal

Director of Residency Training Program
J. Manoukian

Director of Head and Neck Oncology Program
M.J. Black

Director of Undergraduate Medical Education
J. Young

Director of Fellowship Training
J. Rappaport

Emeritus Professor
J.D. Baxter; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C)

Professors
S. Daniel; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
S. Frenkiel; B.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)
A. Katsarkas; M.D.(Thess.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)
K. Kost; M.D.,C.M.(McG.), F.R.C.S.(C)
N. Sadeghi; M.D.,C.M.(McG.), F.R.C.S.(C)
M. Schloss; M.D.(Br. Col.), F.R.C.S.(C)
T.L. Tewfik; M.D.(Alex.), F.R.C.S.(C)

Associate Professors
M.J. Black; M.D.,C.M.(McG.), F.R.C.S.(C)
M. Desrosiers; M.D.(Montr.), F.R.C.S.(C)
**Associate Professors**

N. Fanous; M.B., B.CH.(Cairo), F.R.C.S.(C)
W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.)
M. Hier; M.D.,C.M.(McG.), F.R.C.S.(C)
J. Manoukian; M.B., Ch.B.(Alex.), F.R.C.S.(C)
L. HP. Nguyen; M.D.,C.M.(McG.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)
W.H. Novick; M.D.(Qu.), F.R.C.S.(C)
R. Payne; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
J. Rappaport; M.D.(Dal.), F.R.C.S.(C)
M. Samaha; M.D.(Qu.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)
B. Segal; B.Sc., B.Eng., M.Eng., Ph.D.(McG.)
R.S. Shapiro; M.D.,C.M.(McG.), F.R.C.S.(C)
A.G. Zeitouni; M.D.(Sher.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

**Assistant Professors**

F. Chagnon; M.D.,C.M.(McG.), F.R.C.S.(C)
M. Duval; M.D.(Ott.), C.M., M.Sc.(Epid.)(Lond.), F.R.C.S.(C)
V.I. Forest; M.D., M.Sc.(Exp. Med.)(Laval), F.R.C.S.(C)
Y. Lacroix; M.D.(Laval), F.R.C.S.(C)
R. Lafleur; M.D.(Ott.), F.R.C.S.(C)
A. Lehmann; B.Sc.(Franche-Comté), M.Eng.(MINES ParisTech), M.Sc.(Paris VI), Ph.D.(Collège de France)
T. Mijovic; M.D.
A. Mlynarek; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
K. Richardson; M.D.
J. Schwartz; M.D., F.R.C.S.(C)
G. Sejean; M.D.(Beirut), F.R.C.S.(C)
R. Sweet; M.D.,C.M.(McG.)
L. Tarantino; M.D.(Naples), F.R.C.S.(C)
M. Tewfik; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
R. Varshney; M.D., C.M., M.Sc., F.R.C.S.(C)
S.D. Wurzba; D.D.S., M.Sc., Ph.D.
J. Young; M.D.,C.M.(McG.), F.R.C.S.(C)
R. Ywakim; M.D., F.R.C.S.(C)

**Associate Members**

K. E. Cullen; Ph.D.(McG.)
H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)
Q. Hamid; M.D.(Iraq), Ph.D.Med.(Lond.)
M. Henry; Ph.D.(UQAM)
N.Y.K. Li; B.Sc.(HK), M.Phil.(HK)
L. Mongeau; B.Sc., M.Sc.(Montr.), Ph.D.(Penn. St.)
M. Paliouras; B.Sc.(Hons.), M.S., Ph.D.
M. Sewitch; Ph.D.
Lecturers
C. Boucher; M.D.
R. Caouette; M.D.
A. Finesilver; M.D.,C.M.(McG.), F.R.C.S.(C)
O. Houle; M.D.
V. Iordanescu; M.D.
L. Monette; M.D.
J. Rothstein; M.D.,C.M.(McG.), F.R.C.S.(C)
T.T. Vi Vu; M.D.(Montr.), F.R.C.S.(C)

Adjunct Professors
J. Oghalai; M.D.
L. Picard; M.D.(Montr.), F.R.C.S.(C)

10.11.17.5 Master of Science (M.Sc.) Otolaryngology (Thesis) (45 credits)

Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>OTOL 690</td>
<td>(3)</td>
<td>M.Sc. Thesis 1</td>
</tr>
<tr>
<td>OTOL 691</td>
<td>(3)</td>
<td>M.Sc. Thesis 2</td>
</tr>
<tr>
<td>OTOL 692</td>
<td>(6)</td>
<td>M.Sc. Thesis 3</td>
</tr>
<tr>
<td>OTOL 693</td>
<td>(6)</td>
<td>M.Sc. Thesis 4</td>
</tr>
<tr>
<td>OTOL 694</td>
<td>(12)</td>
<td>M.Sc. Thesis 5</td>
</tr>
</tbody>
</table>

Required Courses (12 credits)
When appropriate, courses OTOL 602, OTOL 612, OTOL 603, or OTOL 613 may be replaced by other Basic Science or Clinical (500, 600, or 700 level) courses of relevance to Otolaryngology, as recommended or approved by the Department.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OTOL 602</td>
<td>(3)</td>
<td>Physiology, Histopathology and Clinical Otolaryngology 1</td>
</tr>
<tr>
<td>OTOL 603</td>
<td>(3)</td>
<td>Advanced Scientific Principles - Otolaryngology 1</td>
</tr>
<tr>
<td>OTOL 612</td>
<td>(3)</td>
<td>Physiology, Histopathology and Clinical Otolaryngology 2</td>
</tr>
<tr>
<td>OTOL 613</td>
<td>(3)</td>
<td>Advanced Scientific Principles - Otolaryngology 2</td>
</tr>
</tbody>
</table>

Complementary Course
(3-4 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 507</td>
<td>(3)</td>
<td>Biostats for Health Sciences</td>
</tr>
</tbody>
</table>

or equivalent.

Students aiming to acquire an interdisciplinary background will be expected to take additional elective courses, at the undergraduate level if necessary.

10.11.18 Pathology

10.11.18.1 Location

Department of Pathology
Duff Medical Building
3775 University Street, Room B4
Montreal QC H3A 2B4
Pathology is the specialized area of biomedical science that emphasizes the study of disease, and it is therefore one of the most multidisciplinary fields of research. Investigators in a pathology department may be utilizing information and experimental techniques originally developed in almost any area of modern biology and, in return, may contribute new knowledge of benefit to many other disciplines. Research on disease may target any of the organ systems, in normal and abnormal conditions, and studies may be conducted from a structural, functional, or molecular perspective at any level, from the intact organism down to specific components of the individual cell. Research in pathology often provides a unique link to human data, with an opportunity to translate experimental research into improved methods of diagnosis and therapy.

The Pathology Department offers research training in a wide variety of areas such as:

- cancer research, including the fundamental biology of breast cancer, ovarian cancer, brain tumors, and the mechanisms of metastasis;
- immunology and transplantation;
- autoimmune disorders;
- ophthalmic pathology;
- cell biology;
- pulmonary disease;
- neurodegenerative disorders;
- smooth muscle pathophysiology; and
- gastrointestinal disease.

Modern techniques and equipment include light, fluorescence, and electron microscopy (both transmission and scanning), laser capture, flow cytometry, DNA, RNA, protein analysis, cell culture, advanced immunological, pharmacological, biochemical, and physiological techniques, as well as morphometry and computer-aided analysis.

section 10.11.18.5: Master of Science (M.Sc.) Pathology (Thesis) (45 credits)

Graduates can directly enter rewarding careers in research, or opt to continue with their studies and obtain a Ph.D. Some combine their research training with subsequent training in medicine, law, or business administration.

section 10.11.18.6: Doctor of Philosophy (Ph.D.) Pathology

Our graduates enter successful careers in industry, academia, government/international agencies, or clinical medicine, sometimes combining two of these options. They leave McGill with experience in leadership and communication skills in addition to being highly trained in biomedical research, and their career choices include a wide range of administrative and research positions around the world.

10.11.18.3 Pathology Admission Requirements and Application Procedures

10.11.18.3.1 Admission Requirements

Applicants must have a B.Sc. or an equivalent degree with an extensive background in the physical and biological sciences. An academic record equivalent to or better than a cumulative grade point average (CGPA) of 3.2 out of 4.0 at McGill is required for at least the two final full-time years of undergraduate training, with a minimum CGPA of 3.0 overall. It is an advantage if candidates have very favourable supporting letters or have demonstrated an exceptional aptitude for research. All candidates are expected to apply for scholarships and fellowships, which usually require a higher CGPA or other evidence of excellence.

Non-Canadian applicants are usually required to take the GRE in order to properly evaluate their suitability. Students who did not complete their previous studies in English must also take the TOEFL or the IELTS examination.

Students are normally accepted into the M.Sc. program, and those candidates showing exceptional ability may be permitted to transfer into the Ph.D. program after one year of training.

Applicants who already possess an additional degree (M.Sc., M.D.) with appropriate research experience may be allowed to register in the Ph.D. program directly.

For further information, applicants may contact the Teaching Office, Department of Pathology: gradstudies.pathology@mcgill.ca.

10.11.18.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.
All applications will be evaluated by the Graduate Students Committee. Candidates found suitable must then be accepted by a research director, and adequate funding must be obtained for both personal support and research expenses.

10.11.18.32 Additional Requirements

- Personal Statement
- Curriculum Vitae
- Research Proposal (when appropriate)
- GRE may be required for non-Canadian applicants

10.11.18.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Pathology Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.18.4 Pathology Faculty

Chair

Z. Gao

Director of Graduate Program

E. Zorychta

Professors

M. Auger; M.D.,C.M.(McG.), F.R.C.P.(C)
M.N. Burnier Jr.; M.D., M.Sc., Ph.D.
A. Ferenczy; B.A., B.Sc., M.D.(Montr.)
R. Fraser; B.Sc., M.D.,C.M.(McG.), M.Sc.(Glas.), F.R.C.P.(C)
Z. Gao; M.D., M.Sc.(Qingdao), Ph.D.(Peking), F.R.C.P.(C)
D. Haegert; M.D.(Br. Col.), F.R.C.P.(C)
Q.A. Hamid; M.D.(Mosul), Ph.D.(Lond.) (James McGill Professor) (joint appt. with Medicine)
R.P. Michel; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)
A. Spatz; M.Sc.(Paris XI), M.D.(Paris VI)
C.M. Telleria; Ph.D.(UNSL, Argentina)

Associate Professors

L. Alpert; M.D., Ph.D.(Tufts)
J. Arseneau; M.D.(Laval), F.R.C.P.(C)
C. Bernard; M.D.(Sher.), F.R.C.P.(C)
F. Brimo; M.D.(Damascus), F.R.C.P.(C)
S. Camilleri-Broët; M.D., Ph.D.(Paris VI)
## Associate Professors

B. Case; B.Sc., M.D., C.M., M.Sc.(McG.), Dipl. Occ. Hyg., F.R.C.P.(C)

M.F. Chen; M.B., B.S.(Monash), F.R.C.P.(C)

M.-C. Guiot; B.Sc., M.D.(Bordeaux)

T. Haliotis; M.D.(Athens), Ph.D.(Qu.), F.R.C.P.(C)

V.A. Marcus; M.D., C.M.(McG.), F.R.C.P.(C)

R. Onerheim; M.D.(Alta.), F.R.C.P.(C)

M. Pelmus; M.D., Ph.D.(Carol Davila, Bucharest)

L. Rochon; M.D.(Sher.), F.R.C.P.(C)

I. Roy; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)

A.K. Watters; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)

E. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

## Assistant Professors

O.E. Ajise; M.D., F.C.A.P., F.R.C.P.(C)

M. Alameldin; M.D.(Alexandria), F.R.C.P.(C)

S. Albrecht; M.D.(Sher.), F.R.C.P.(C)

O. Aleynikova; M.D.(Dal.), F.R.C.P.(C)

R. Amre; M.B.B.S.(KIMS), F.R.C.P.(C)

K. Bakdounes; M.D.(Damascus), F.R.C.P.(C)

M. Blumenkrantz; M.D., C.M.(McG.), F.R.C.P.(C)

G.D. Brandao; M.D.(UFJF)

J Burnier; Ph.D.(McG.)

D. Caglar; M.D.(Gazi)

J. Chepovetsky; M.D.(Mount Sinai Sch. of Medicine, New York)

A. Florea; M.D.(Iuliu Haieganu)

L. Fu; M.D., C.M.(McG.), M.Sc.(McG.), F.R.C.P.(C)

A. Gologan; M.D.(Carol Davila, Bucharest)

A. Gregorieff; B.Sc.(Laval), M.Sc.(McG.), Ph.D.(Utrecht)

S.-M. Jung; M.D.(Chonnam Nat.)

Y. Kanber; M.D.(Marmara)

J. Karamchandani; M.D.(Stan.)

J. Lavoie; B.Sc., M.Sc., Ph.D.(Laval)

H.R. Lopez-Valle; M.D.(Univ. Autonoma, San Luis Potosi)

A.T. Marcus; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)

V.-H. Nguyen; M.D.(Montr.), F.R.C.P.(C)

A. Omeroglu; M.D.(Istanbul)

G. Omeroglu-Altinel; M.D.(Istanbul)

F. Razaghi; M.D.(Beheshti Univ. Medical Sciences, Tehran)

S. Sabri; Ph.D.(Paris VII)

S. Sandhu; M.B., B.S.(N. Bengal Medical Coll.)

J. St. Cyr; M.D., C.M.(McG.), F.R.C.P.(C)

H. Wang; M.D.(China), F.R.C.P.(C)
### Associate Members

- B. S. Abdulkarim; M.D., Ph.D.(Paris), F.R.C.P.(C)
- C.J. Baglole; M.Sc.(PEI), Ph.D.(Calg.)
- P.J. Chauvin; M.Sc.(W.Ont.), D.D.S.(McG.)
- M. Divangahi; Ph.D.(McG.)
- S.N.A. Hussain; M.D.(Baghdad), Ph.D.(McG.)
- G.O.R. Arena; M.D., Chir.Vasc.(Catania), F.R.C.S.(C)
- N. Jabado; M.D.(Paris VI), Ph.D.(INSERM, Paris)
- W. Kassouf; M.D.,C.M.(McG.), F.R.C.S.(C)
- P. Metrakos; M.D.,C.M.(McG.), F.R.C.S.(C)
- V. Papadopoulos; Ph.D.(Paris VI)
- M. Park; Ph.D.(Glasgow), F.R.S.C.
- A. Schwertani; M.D.,C.M., Ph.D.(Lond.)

**10.1.18.5 Master of Science (M.Sc.) Pathology (Thesis) (45 credits)**

All students must take PATH 300 plus a course in statistics if they have not completed these requirements before admission. Candidates with insufficient background in one of the biomedical sciences will be required to take specific courses to remedy the deficiency. These and additional courses that are relevant to the student's area of research will be chosen in consultation with the research director and Graduate Students Committee.

### Thesis Courses (30 credits)

- **PATH 690** (9) M.Sc. Thesis Research Project 1
- **PATH 691** (9) M.Sc. Thesis Research Project 2
- **PATH 692** (12) M.Sc. Thesis Research Project 3

### Required Courses (6 credits)

- **PATH 620** (3) Research Seminar 1
- **PATH 622** (3) Research Seminar 2

### Complementary Courses (9 credits)

3 credits, one of the following courses:

- **PATH 613** (3) Research Topics in Pathology 1
- **PATH 614** (3) Research Topics in Pathology 2

6 credits, two 500-, 600-, or 700-level courses offered by the Department; subject to approval of the research director and Graduate Students Committee, up to 3 credits of 500-, 600-, or 700-level credits may be taken in another department.

**10.1.18.6 Doctor of Philosophy (Ph.D.) Pathology**

### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses (12 credits)

- **PATH 613** (3) Research Topics in Pathology 1
Complementary Courses (9 credits)

Three 500-, 600-, or 700-level courses offered by the Department; subject to the approval of the research director and Graduate Students Committee, up to one 500-, 600-, or 700-level course may be taken in another department.

10.11.19 Pharmacology and Therapeutics

10.11.19.1 Location

Department of Pharmacology and Therapeutics
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler, Room 1325
Montreal QC H3G 1Y6
Canada
Telephone: 514-398-3623
Fax: 514-398-2045
Email: gradstudies.pharmacology@mcgill.ca
Website: www.mcgill.ca/pharma

10.11.19.2 About Pharmacology and Therapeutics

The Department of Pharmacology and Therapeutics offers training leading to M.Sc. (Thesis) and Ph.D. degrees. Pharmacology is a multidisciplinary science that deals with all aspects of drugs and their interactions with living organisms. Thus, pharmacologists study the physical and chemical properties of drugs, their biochemical and physiological effects, mechanisms of action, pharmacokinetics, and therapeutic and other uses. The Department offers broad exposure and training in both basic and clinical research in a range of areas of specialty, including:

- neuropharmacology;
- reproductive pharmacology;
- endocrine pharmacology;
- receptor pharmacology;
- cardiovascular pharmacology;
- cancer;
- developmental pharmacology;
- autonomic pharmacology;
- clinical pharmacology;
- biochemical pharmacology;
- molecular biology;
- toxicology.

The present 51 full and affiliate members of the Department have research laboratories located in the McIntyre Medical Sciences Building and in a variety of hospitals, institutes, and industry including the Douglas Hospital Research Centre, Allan Memorial Institute, Montreal Children's Hospital, Montreal General Hospital, Montreal Heart Institute, Lady Davis Research Institute, Pfizer Canada, and MUHC Research Institute. The participation of researchers from both industry and government ensures the relevance of the Department’s applications-oriented training programs.

section 10.11.19.5: Master of Science (M.Sc.) Pharmacology (Thesis) (45 credits)

The objective of the M.Sc. (Thesis) and Ph.D. degree training programs is to provide in-depth independent research experience in a specific area of pharmacology. The program leading to a master’s degree is designed to provide students the opportunity to acquire knowledge in pharmacology, to conduct a research project, to analyze data, and to write a thesis. Students will also receive essential training in research professionalism and scientific communication.
**Section 10.11.19.6: Master of Science (M.Sc.) Pharmacology (Thesis): Environmental Health Sciences (45 credits)**

The M.Sc. in Pharmacology; Environmental Health Sciences focuses on the interplay between the environment and health. Environmental health research is highly interdisciplinary; students will be given the opportunity to acquire a broad environmental perspective on exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

**Section 10.11.19.7: Doctor of Philosophy (Ph.D.) Pharmacology**

The objective of the M.Sc. (Thesis) and Ph.D. degree training programs is to provide in-depth independent research experience in a specific area of pharmacology. The program leading to a doctoral degree is designed to provide students the opportunity to acquire knowledge in pharmacology, to conduct an original research project, to analyze data, and to write a thesis. Students will also receive essential training in research professionalism and scientific communication.

**Section 10.11.19.8: Doctor of Philosophy (Ph.D.) Pharmacology: Environmental Health Sciences**

The Ph.D. in Pharmacology; Environmental Health Sciences program is designed to train professionals for advanced research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research. Students will acquire a broad environmental perspective, including exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

### 10.11.19.3 Pharmacology and Therapeutics Admission Requirements and Application Procedures

#### 10.11.19.3.1 Admission Requirements

Candidates are required to hold a B.Sc. degree in a discipline relevant to the proposed field of study; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. A background in the health sciences is recommended, but programs in biology, chemistry, mathematics, and physical sciences may be acceptable.

Admission is based on a student's academic record, letters of assessment, and, whenever possible, interviews with staff members. Students are required to take the Graduate Record Examination Aptitude Test (GRE) and the Test of English as a Foreign Language (TOEFL) or the equivalent, except as follows: in accordance with McGill policy, only those whose mother tongue is English, who graduated from a recognized Canadian institution (anglophone or francophone), or who completed an undergraduate or graduate degree at a recognized foreign institution where English is the language of instruction are exempt from providing proof of competency in English.

Inquiries relating to all aspects of graduate study should be directed to the Graduate Coordinator, Department of Pharmacology and Therapeutics, as early as possible in each academic year.

#### 10.11.19.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

#### 10.11.19.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Personal Statement
- GRE – required for degrees from outside North America

#### 10.11.19.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Pharmacology and Therapeutics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

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<td>Winter Term:</td>
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<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Please refer to our website for complete deadlines.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**10.11.19.4 Pharmacology and Therapeutics Faculty**

**Chair**

G. Multhaup

**Graduate Program Director**

B. Robaire

**Emeritus Professors**

R. Capek; M.D., Ph.D.(Prague)
H.H. Zingg; M.D., Ph.D.(McG.)

**Professors**

D. Bernard; Ph.D.(Johns Hop.)
D. Bowie; B.Sc., Ph.D.(Lond.)
P.B.S. Clarke; M.A.(Camb.), Ph.D.(Lond.)
A.C. Cuello; M.D.(Buenos Aires), M.A., D.Sc.(Oxf.), F.R.S.C.
B.F. Hales; Ph.D.(McG.)
T. Hébert; Ph.D.(Tor.)
D. Maysinger; Ph.D.(USC)
A. McKinney; Ph.D.(Ulster)
G. Multhaup; Ph.D.(Cologne)
A. Ribeiro-da-Silva; M.D., Ph.D.(Oporto)
B. Robaire; Ph.D.(McG.)
H. Saragovi; Ph.D.(Miami)
M. Szyf; Ph.D.(Hebrew)
J. Trasler; M.D.,C.M., Ph.D.(McG.)

**Associate Professors**

S. Nattel; M.D.,C.M.(McG.)
J. Tanny; Ph.D.(Harv.)
E. Zorychta; Ph.D.(McG.)

**Assistant Professors**

B. Castagner; Ph.D.(Col.)
L. Münster; Ph.D.(Free Univ., Berlin)
J.F. Trempe; Ph.D.(Oxf.)

**Associate Members**

M. Alaoui-Jamali; Ph.D.(Paris IV)
C. Baglole; Ph.D.(Calg.)
L. Diatchenko; M.D., Ph.D.(RNRMU)
L. Fellows; M.D., C.M.(McG.) Ph.D.(Oxf.)
S. Gauthier; M.D.(Montr.)
T. Geary; Ph.D.(Mich.)
### Associate Members

- B. Jean-Claude; Ph.D.(McG.)
- B. Keiffer; Ph.D.(Strasbourg)
- S. Kimmins; Ph.D.(Dal.)
- S. Laporte; Ph.D.(Sher.)
- C. O'Flaherty; Ph.D.(Buenos Aires)
- P. Rosa-Neto; M.D.(Lisbon), Ph.D.(Aarhus)
- S. Rousseau; Ph.D.(Laval)
- Y. Shir; M.D.(Israel), Ph.D.(Johns Hop.)
- L. Stone; Ph.D.(Minn.)
- M. Ware; M.B.B.S.(West Indies)
- T. P. Wong; Ph.D.(McG.)

### Adjunct Professors

- B. Allen, B. Boivin, S. Chemtob, Y. De Koninck, G. FitzHarris, J. S. Joyal, T. Sanderson

### Affiliate Members

- M. Boucher; Ph.D.(Montr.)
- L. Breton; Ph.D.(Paris)
- L. Garolalo; Ph.D.(McG.)
- J. Gillard; Ph.D.(Tasmania)
- J. Mancini; M.Sc., Ph.D.(McG.)
- K. Meerovitch; Ph.D.(McG.)

### 10.11.19.5 Master of Science (M.Sc.) Pharmacology (Thesis) (45 credits)

The program leading to a master's degree is designed to provide students the opportunity to acquire knowledge in Pharmacology, to conduct a research project, to analyze data, and to write a thesis. Students will also receive essential training in Research Professionalism and Scientific Communication.

#### Thesis Courses (24 credits)

- PHAR 696 (3) Thesis Preparation
- PHAR 698 (9) Thesis Preparation 2
- PHAR 699 (12) Thesis Preparation 3

#### Required Courses (12 credits)

- PHAR 601 (6) Research Seminar
- PHAR 609 (1) Research Professionalism for Pharmacologists
- PHAR 610 (2) Scientific Communication for Pharmacologists
- PHAR 712 (3) Statistics for Pharmacologists

#### Complementary Courses (9 credits)

6 credits, from the following courses:

- PHAR 503* (3) Drug Discovery and Development 1
- PHAR 505* (3) Structural Pharmacology
- PHAR 562 (3) Neuropharmacology
PHAR 563 (3) Endocrine Pharmacology

Or completion of an equivalency exam
Or an exemption granted by the Graduate Training Committee (GTC) on the basis of previous courses.
* Students may take PHAR 503 or PHAR 505 but not both.

Students who have taken these courses as part of their undergraduate degree, passed the equivalency exam, or been exempted, will register for the following course:

PHAR 697 (6) Thesis Preparation 1

3 credits, at the 700-level PHAR course(s), or the equivalent, upon approval by the GTC.

10.11.19.6 Master of Science (M.Sc.) Pharmacology (Thesis): Environmental Health Sciences (45 credits)

The M.Sc. in Pharmacology; Environmental Health Sciences will focus on the interplay between the environment and health. Environmental health research is highly interdisciplinary. Students will be given the opportunity to acquire a broad environmental perspective on exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 696</td>
<td>3</td>
<td>Thesis Preparation</td>
</tr>
<tr>
<td>PHAR 698</td>
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<td>Thesis Preparation 2</td>
</tr>
<tr>
<td>PHAR 699</td>
<td>12</td>
<td>Thesis Preparation 3</td>
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**Required Courses (18 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 601</td>
<td>6</td>
<td>Research Seminar</td>
</tr>
<tr>
<td>PHAR 609</td>
<td>1</td>
<td>Research Professionalism for Pharmacologists</td>
</tr>
<tr>
<td>PHAR 610</td>
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<tr>
<td>PHAR 670</td>
<td>3</td>
<td>Principles of Environmental Health Sciences I</td>
</tr>
<tr>
<td>PHAR 671</td>
<td>3</td>
<td>Principles of Environmental Health Sciences 2</td>
</tr>
<tr>
<td>PHAR 712</td>
<td>3</td>
<td>Statistics for Pharmacologists</td>
</tr>
</tbody>
</table>

**Complementary Courses (3 credits)**

3 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 503</td>
<td>3</td>
<td>Drug Discovery and Development 1</td>
</tr>
<tr>
<td>PHAR 505</td>
<td>3</td>
<td>Structural Pharmacology</td>
</tr>
<tr>
<td>PHAR 562</td>
<td>3</td>
<td>Neuropharmacology</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>3</td>
<td>Endocrine Pharmacology</td>
</tr>
</tbody>
</table>

Or completion of an equivalency exam
Or an exemption granted by the Graduate Training Committee (GTC) on the basis of previous courses.

Students who have taken these courses as part of their undergraduate degree, passed the equivalency exam, or been exempted, will register for a 3 credit, 700-level PHAR course, or the equivalent, upon approval by the GTC.

10.11.19.7 Doctor of Philosophy (Ph.D.) Pharmacology

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
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<tr>
<td>PHAR 609</td>
<td>1</td>
<td>Research Professionalism for Pharmacologists</td>
</tr>
<tr>
<td>PHAR 610</td>
<td>2</td>
<td>Scientific Communication for Pharmacologists</td>
</tr>
<tr>
<td>PHAR 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Exam</td>
</tr>
<tr>
<td>PHAR 712</td>
<td>3</td>
<td>Statistics for Pharmacologists</td>
</tr>
</tbody>
</table>

Two additional 700-level PHAR courses (3 credits each), or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Complementary Courses (6 credits)

6 credits, chosen from the following courses:

* Students take PHAR 503 OR PHAR 505

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>Drug Discovery and Development I</td>
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<td>Structural Pharmacology</td>
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<td>PHAR 562</td>
<td>3</td>
<td>Neuropharmacology</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>3</td>
<td>Endocrine Pharmacology</td>
</tr>
</tbody>
</table>

Or completion of an equivalency exam;
Or an exemption granted by the GTC on the basis of previous courses.

10.11.19.8 Doctor of Philosophy (Ph.D.) Pharmacology: Environmental Health Sciences

The Ph.D. in Pharmacology, Environmental Health Sciences program is designed to train professionals for advanced basic research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research. Students will acquire a broad environmental perspective, including exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
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<tbody>
<tr>
<td>PHAR 609</td>
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<td>PHAR 712</td>
<td>3</td>
<td>Statistics for Pharmacologists</td>
</tr>
</tbody>
</table>

One additional 700-level PHAR course (3 credits), or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Complementary Courses (3 credits)

3 credits, chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Neuropharmacology</td>
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</table>
PHAR 563 (3) Endocrine Pharmacology

Or completion of an equivalency exam;
Or an exemption granted by the GTC on the basis of previous courses.

10.11.20 Physiology

10.11.20.1 Location

Department of Physiology
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Canada
Telephone: 514-398-4343
Website: www.mcgill.ca/physiology

10.11.20.2 About Physiology

The Physiology Department offers training leading to M.Sc. and Ph.D. degrees. The scope of the ongoing research, and close connections with the McGill teaching hospitals, offer excellent opportunities for collaborations with hospital-based scientists. Research in the Department covers a broad range of topics from systems neuroscience to molecular and cellular biology. Interests include studies of nuclear and membrane receptors, transporters, channels, and signal transduction pathways, to the broader integration of physiological systems (cardiovascular, respiratory, renal, endocrine, immune, and central nervous systems) using an array of molecular and cellular approaches as well as quantitative techniques in data collection, analysis, and mathematical modelling by computational means.

All graduate students in Physiology receive financial support. Any faculty or associate member who agrees to supervise a graduate student who does not hold a fellowship is financially responsible for that student. Students are encouraged to apply for a fellowship; further information is available at www.mcgill.ca/physiology/graduate-studies/financial-other-assistance.

section 10.11.20.5: Master of Science (M.Sc.) Physiology (Thesis) (45 credits)

The M.Sc. program is intended for students from an academic background wishing to pursue careers in academia, industry, or in medicine. The multidisciplinary nature of the Department exposes students to a vast array of research interests and experimental approaches. Thesis work is available in a broad range of disciplines from molecular and cellular to systems physiology covering multiple organ systems. Students wishing to continue to the doctoral program have the option of transferring to the Ph.D., and waiving the M.Sc. thesis submission.

section 10.11.20.6: Master of Science (M.Sc.) Physiology (Thesis): Bioinformatics (45 credits)

This program is currently not offered.

The intention of the Bioinformatics option is to train M.Sc. students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating of bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option will be fluent in the concepts, language, approaches, and limitations of the field. The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

section 10.11.20.7: Master of Science (M.Sc.) Physiology (Thesis): Chemical Biology (45 credits)

The Chemical Biology option is designed to expose students to aspects of drug design and development, as well as their application to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lectures, seminar courses, and thematic workshops; all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in the pharmaceutical and biotechnology industries.

section 10.11.20.8: Doctor of Philosophy (Ph.D.) Physiology

The doctoral program is intended for students from a strong academic background wishing to pursue research-intensive careers in academia, industry, or in medicine. The multidisciplinary nature of the Department exposes students to a vast array of research interests and experimental approaches. Thesis work provides in-depth training in a broad range of disciplines from molecular and cellular to systems physiology covering multiple organ systems.

section 10.11.20.9: Doctor of Philosophy (Ph.D.) Physiology: Bioinformatics

This program is currently not offered.
section 10.11.20.9: Doctor of Philosophy (Ph.D.) Physiology: Bioinformatics

The intention of the Bioinformatics option is to train Ph.D. students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option will be fluent in concepts, language, approaches, and limitations of the field. The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

section 10.11.20.10: Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

The Chemical Biology option is designed to expose students to aspects of drug design and development, as well as their application to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lectures, seminar courses, and thematic workshops; all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in the pharmaceutical and biotechnology industries.

10.11.20.3 Physiology Admission Requirements and Application Procedures

10.11.20.3.1 Admission Requirements

Admission to the graduate program is based on an evaluation by the Graduate Student Admissions and Advisory Committee (GSAAC), and on being accepted by a research supervisor. Final acceptance is contingent upon approval of the recommendation of the applicant by Enrolment Services, from whom official notification will be received.

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent. Candidates who have completed an M.Sc. may be admitted directly to the Ph.D. program. M.Sc. students interested in a Ph.D. may fast track to the Ph.D. program after 12–18 months, following successful completion of the comprehensive exam. The M.Sc. thesis requirement is then waived. Candidates with exceptional academic records may be considered to proceed directly to the Ph.D. degree from the B.Sc. degree.

A minimum CGPA of 3.2 out of 4.0 or a GPA of 3.4 in the last two years is required for an application to be considered.

The GRE General Test is required for anyone who does not have a degree from a North American university.

Language Requirements

Test of English as a Foreign Language (TOEFL): minimum score of 100 on the Internet-based test (iBT; 600 on the paper-based test (PBT)) with each component score not less than 20. Only those whose mother tongue is English, who graduated from a North American institution (anglophone or francophone) or who completed an undergraduate or graduate degree at a foreign institution where English is the language of instruction are exempt from providing proof of competency in English.

10.11.20.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Applications should be submitted as early as possible in order to facilitate processing. However, no applications will be considered after the application deadlines.

10.11.20.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Two letters of reference
- Personal Statement
- GRE and TOEFL – for applicants whose undergraduate degree is not from a North American university
- List of supervisor preferences

10.11.20.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Physiology Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<td>Fall Term:</td>
<td>Sept. 15</td>
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</tbody>
</table>
Application Deadlines

<table>
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<tr>
<th>Winter Term:</th>
<th>Application Opening Dates</th>
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<td></td>
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</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. Interested candidates should refer to the Department's website for details regarding application procedures, as well as other important information.

10.11.204 Physiology Faculty

Chair

John White

Graduate Program Director

Alvin Shrier

Emeritus Professors

Thomas M.S. Chang; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C)
Kresimir Krmjevic; O.C., B.Sc., Ph.D., M.B., Ch.B.(Edin.), F.R.S.C.
Wayne S. 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.)
Michael Mackey; B.A., Ph.D.(Wash.) (Joseph Morley Professor of Physiology)
Geoffrey Melvill Jones; B.A., M.A., M.B., B.Ch., M.D.(Cant.)
Joseph Milic-Emili; M.D.(Milan) (joint appt with Medicine)
Canio Polosa; M.D., Ph.D.(McG.)
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.(Surr.), Ph.D.(McM.)
Leon Glass; B.S.(Brooklyn), Ph.D.(Chic.) (Rosenfeld Professor of Medicine) (joint appt. with Medicine)
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)
John Hanrahan; Ph.D.(Br. Col.)
David Goltzman; B.Sc., M.D., C.M.(McG.) (Antoine G. Massabki Professor of Medicine) (joint appt. with Medicine)
Gergely Lukacs; M.D., Ph.D.(Budapest)
Sheldon Magder; M.D.(Tor.) (joint appt. with Medicine)
Jacopo P. Mortola; M.D.(Milan)
John Orlowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (James McGill Professor)
Presmysl Ponka; M.D., Ph.D.(Prague) (joint appt. with Medicine)
Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.) (Hosmer Professor of Physiology)
John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.) (joint appt. with Medicine)

Associate Professors

Maurice Chacron; Ph.D.(Ott.)
Erik Cook; Ph.D.(Baylor Coll., Tx)
Mladen Glavinovic; B.Sc.(Zagreb), M.Sc.(Tor.), Ph.D.(McG.)
Associate Professors

Michael Guevara; Ph.D.(McG.)
Russell Jones; Ph.D.(Tor.)
Ursula Stochaj; Ph.D.(Cologne)

Associate Professor (Part-time)

Nicole Bernard; B.Sc.(McG.), Ph.D.(Duke)

Assistant Professors

Claire Brown; B.Sc.(St. Mary's), Ph.D.(W. Ont.)
Gil Bub; B.Sc., Ph.D(McG.)
Anmar Khadra; B.Sc.(C'dia), M.Sc., Ph.D.(Wat.)
Connie Krawczyk; B.Sc.(Guelph), Ph.D.(Tor.) (joint appt. with Microbiology & Immunology)
Arjun Krishnaswamy; B.Sc. Ph.D.(McG.)
Judith Natalia Mandl; B.Sc.(Warw.), Ph.D.(Emory)
Anastasia Nijnik; M.Biochem., Ph.D.(Oxf.)
Masha Prager-Khoutorsky; B.Sc., Ph.D.(Hebrew)
Daniela Quail; B.Sc., Ph.D.(W.Ont.)
Reza Sharif-Naeini; B.Sc.(Montr.), M.Sc., Ph.D.(McG.)
Melissa Vollrath; B.Sc,(Wisc.), Ph.D. (Baylor Coll., Houston)

Associate Members

Anaesthesia: Steven Backman
Biomedical Engineering: Robert Kearney, Satya Prakash
Biomedical Ethics: Jennifer Fishman
Kinesiology and Physical Education: Dilson Rassier
Mathematics: Anthony Humphries
Medicine: Nicole Bernard, Volker Blank, Mark Blostein, Andrey Cybulsky, Geoffrey Hendy, Louise Larose, Anne-Marie Lauzon, Sergei Lemay, James Martin, Barry Posner, Shafaaat Rabbani, Simon Rousseau, Mary Stevenson, Tomoko Takano, Elena Torban, Simon Wing
Microbiology and Immunology: Jörg Fritz
Neurology and Neurosurgery: Jack Antel, Massimo Avoli, Daniel Guittot, Christopher Pack, David Ragsdale, Ed Ruthazer, Amir Shmuel, Jesper Sjöström
Ophthalmology: Curtis Baker
Otolaryngology: Bernard Segal
Pediatrics: Charles Rohlicek
Pharmacology and Therapeutics: Daniel Bernard, Terence Hebert
Psychiatry: Nicolas Cermakian, Bernardo Dubrovsky
Research in Neuroscience: Charles Bourque, Sal. T. Carbonetto

Adjunct Professors

K. Cullen, P. Haghighi, J. Martinez-Trujillo

Associate Professor Post-Retirement

Ann Wechsler; B.A.(Tor.), M.Sc., Ph.D.(McG.)

10.11.20.5 Master of Science (M.Sc.) Physiology (Thesis) (45 credits)

Thesis Courses (27 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHGY 621</td>
<td>12</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>PHGY 622</td>
<td>12</td>
<td>Thesis 2</td>
</tr>
<tr>
<td>PHGY 623</td>
<td>3</td>
<td>M.Sc. Final Seminar</td>
</tr>
</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PHGY 601</td>
<td>1</td>
<td>M.Sc. Proposal Seminar</td>
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<tr>
<td>PHGY 602</td>
<td>2</td>
<td>Literature Search and Research Proposal</td>
</tr>
<tr>
<td>PHGY 604</td>
<td>0</td>
<td>Responsible Conduct in Research</td>
</tr>
<tr>
<td>PHGY 607</td>
<td>3</td>
<td>Laboratory Research 1</td>
</tr>
<tr>
<td>PHGY 608</td>
<td>3</td>
<td>Laboratory Research 2</td>
</tr>
<tr>
<td>PHGY 620</td>
<td>3</td>
<td>Progress in Research</td>
</tr>
</tbody>
</table>

**Elective Courses (6 credits)**

Students must select 6 approved credits in Physiology or Science at the 500 level or above.

**10.11.20.6 Master of Science (M.Sc.) Physiology (Thesis): Bioinformatics (45 credits)**

**This program is currently not offered.**

**Thesis Courses (27 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHGY 621</td>
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<td>Thesis 1</td>
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</tr>
<tr>
<td>PHGY 623</td>
<td>3</td>
<td>M.Sc. Final Seminar</td>
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</tbody>
</table>

**Required Courses (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>PHGY 601</td>
<td>1</td>
<td>M.Sc. Proposal Seminar</td>
</tr>
<tr>
<td>PHGY 602</td>
<td>2</td>
<td>Literature Search and Research Proposal</td>
</tr>
<tr>
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<td>Responsible Conduct in Research</td>
</tr>
<tr>
<td>PHGY 607</td>
<td>3</td>
<td>Laboratory Research 1</td>
</tr>
<tr>
<td>PHGY 608</td>
<td>3</td>
<td>Laboratory Research 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 credits to be chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>3</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>3</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>3</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
</tbody>
</table>

**10.11.20.7 Master of Science (M.Sc.) Physiology (Thesis): Chemical Biology (45 credits)**

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors.
This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.
Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHGY 621</td>
<td>12</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>PHGY 622</td>
<td>12</td>
<td>Thesis 2</td>
</tr>
<tr>
<td>PHGY 623</td>
<td>3</td>
<td>M.Sc. Final Seminar</td>
</tr>
</tbody>
</table>

Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHGY 601</td>
<td>1</td>
<td>M.Sc. Proposal Seminar</td>
</tr>
<tr>
<td>PHGY 602</td>
<td>2</td>
<td>Literature Search and Research Proposal</td>
</tr>
<tr>
<td>PHGY 604</td>
<td>0</td>
<td>Responsible Conduct in Research</td>
</tr>
<tr>
<td>PHGY 607</td>
<td>3</td>
<td>Laboratory Research 1</td>
</tr>
<tr>
<td>PHGY 608</td>
<td>3</td>
<td>Laboratory Research 2</td>
</tr>
<tr>
<td>PHGY 620</td>
<td>3</td>
<td>Progress in Research</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)

3 credits from the following Chemical Biology seminars:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 610</td>
<td>1</td>
<td>Seminars in Chemical Biology 1</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>1</td>
<td>Seminars in Chemical Biology 3</td>
</tr>
<tr>
<td>BIOC 689</td>
<td>1</td>
<td>Seminars in Chemical Biology 2</td>
</tr>
<tr>
<td>BIOC 690</td>
<td>1</td>
<td>Seminars in Chemical Biology 4</td>
</tr>
</tbody>
</table>

3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 502</td>
<td>3</td>
<td>Advanced Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 503</td>
<td>3</td>
<td>Drug Discovery</td>
</tr>
<tr>
<td>PHAR 503</td>
<td>3</td>
<td>Drug Discovery and Development 1</td>
</tr>
</tbody>
</table>

10.11.20.8 Doctor of Philosophy (Ph.D.) Physiology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (8 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHGY 604</td>
<td>0</td>
<td>Responsible Conduct in Research</td>
</tr>
<tr>
<td>PHGY 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>PHGY 703</td>
<td>1</td>
<td>Ph.D. Progress Seminar 1</td>
</tr>
<tr>
<td>PHGY 704</td>
<td>1</td>
<td>Ph.D. Progress Seminar 2</td>
</tr>
<tr>
<td>PHGY 720</td>
<td>1</td>
<td>Ph.D. Seminar Course 1</td>
</tr>
<tr>
<td>PHGY 721</td>
<td>1</td>
<td>Ph.D. Seminar Course 2</td>
</tr>
<tr>
<td>PHGY 722</td>
<td>1</td>
<td>Ph.D. Seminar Course 3</td>
</tr>
<tr>
<td>PHGY 723</td>
<td>1</td>
<td>Ph.D. Seminar Course 4</td>
</tr>
<tr>
<td>PHGY 724</td>
<td>1</td>
<td>Ph.D. Seminar Course 5</td>
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</tbody>
</table>
Elective Courses (9 credits)
9 credits of Physiology or Science at the 500 level or above, in consultation with the GSAAC and the candidate's supervisor.

10.11.20.9 Doctor of Philosophy (Ph.D.) Physiology: Bioinformatics

** This program is currently not offered. **

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (11 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>COMP 616D1</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>PHGY 604</td>
<td>0</td>
<td>Responsible Conduct in Research</td>
</tr>
<tr>
<td>PHGY 701</td>
<td>0</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>PHGY 703</td>
<td>1</td>
<td>Ph.D. Progress Seminar 1</td>
</tr>
<tr>
<td>PHGY 704</td>
<td>1</td>
<td>Ph.D. Progress Seminar 2</td>
</tr>
<tr>
<td>PHGY 720</td>
<td>1</td>
<td>Ph.D. Seminar Course 1</td>
</tr>
<tr>
<td>PHGY 721</td>
<td>1</td>
<td>Ph.D. Seminar Course 2</td>
</tr>
<tr>
<td>PHGY 722</td>
<td>1</td>
<td>Ph.D. Seminar Course 3</td>
</tr>
<tr>
<td>PHGY 723</td>
<td>1</td>
<td>Ph.D. Seminar Course 4</td>
</tr>
<tr>
<td>PHGY 724</td>
<td>1</td>
<td>Ph.D. Seminar Course 5</td>
</tr>
<tr>
<td>PHGY 725</td>
<td>1</td>
<td>Ph.D. Seminar Course 6</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)
6 credits to be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>3</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>3</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
</tbody>
</table>

10.11.20.10 Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (11 credits)
Seminars in Chemical Biology 1
Seminars in Chemical Biology 3
Seminars in Chemical Biology 2
Seminars in Chemical Biology 4
Responsible Conduct in Research
Ph.D. Comprehensive Examination
Ph.D. Progress Seminar 1
Ph.D. Progress Seminar 2
Ph.D. Seminar Course 1
Ph.D. Seminar Course 2
Ph.D. Seminar Course 3
Ph.D. Seminar Course 4
Ph.D. Seminar Course 5

Complementary Courses (6 credits)
6 credits from the following:
- CHEM 502 (3) Advanced Bio-Organic Chemistry
- CHEM 503 (3) Drug Discovery
- PHAR 503 (3) Drug Discovery and Development I

10.11.21 Psychiatry

10.11.21.1 Location

Department of Psychiatry
1033 Pine Avenue West
Montreal QC H3A 1A1
Canada
Telephone: 514-398-4176
Fax: 514-398-4370
Email: graduate.psychiatry@mcgill.ca
Website: www.mcgill.ca/psychiatry

10.11.21.2 About Psychiatry

McGill University’s Department of Psychiatry is one of the most prestigious in the world. In the 1950s and 60s, Heinz Lehmann conducted the first North American clinical trials for antipsychotic and antidepressant medications. Theodore Sourkes identified the core neurobiological features of Parkinson’s disease, and Eric Wittkower and Jack Fried brought together scholars from Anthropology and Psychiatry to create Transcultural Psychiatric Studies. Since then, faculty members and graduate students continue outstanding research in addictions; Alzheimer’s and childhood disorders; eating, personality, and mood disorders; stress; trauma; and psychosis. The work is conducted in people and animal models, and also benefits from expertise ranging from neuroimaging and epigenetics to mental health services and public policy. Our work remains at the cutting edge of research on health, disease, and recovery.

Section 10.11.21.5: Master of Science (M.Sc.) Psychiatry (Thesis) (45 credits)

The graduate program in Psychiatry is designed to provide advanced research training in the basic, applied, and social sciences relevant to issues in psychiatry. Applicants are admitted from a wide range of backgrounds, including undergraduate degrees in relevant areas (e.g., psychology, neuroscience, sociology, medical anthropology, nursing, and medicine), and those who are pursuing their psychiatry residency at McGill. Most, though not all students, continue to a Ph.D. program. The graduate program does not provide clinical training.
10.11.21.3 Psychiatry Admission Requirements and Application Procedures

10.11.21.3.1 Admission Requirements

- A B.Sc., B.A., B.N., or M.D. degree
- A strong background in science and/or social science, as demonstrated by academic achievement equivalent to a GPA of 3.3 (on a 4-point scale) or 3.5 in the last two years
- A written agreement from the proposed research supervisor, and student's statement of purpose for seeking an M.Sc.
- An outline of the proposed thesis research, to be written by the prospective student in collaboration with an appropriate research supervisor
- Two letters of reference
- Sufficient funding to support their studies
- TOEFL or IELTS certificate of proficiency in English for non-Canadian applicants whose mother tongue and language of education is not English, with a minimum score of 86 on the TOEFL Internet-based test (iBT; or 550 on the paper-based test [PBT]), with each component score not less than 20, or 6.5 on the IELTS test

10.11.21.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

10.11.21.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Personal Statement – describing the specific reasons for seeking a Master of Science degree in Psychiatry
- Letters of Reference – with Applicant Evaluation checklist forms (see Department website)
- Written Confirmation of Supervision form (see Department website) from the proposed research supervisor

10.11.21.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Psychiatry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>All Applicants</th>
<th>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</th>
<th>Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &amp; Exchange)</th>
<th>Current McGill Students (any citizenship)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
<td>March 15</td>
<td>March 15</td>
<td>March 15</td>
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<td>Summer Term:</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

10.11.21.4 Psychiatry Faculty

Chair

G. Turecki

Director of Graduate Program

N. Mechawar

Emeritus Professors

F. Abbott; B.Sc.(McM.), M.Sc., Ph.D.(McG.)
L. Annable; B.Sc.(Liv.), Dipl. in Stat.(Edin.)
M.K. Birmingham; B.A.(Bennington), M.Sc., Ph.D.(McG.)
F. Engelsmann
N. Frasure-Smith; B.A. Ph.D.(Johns Hop.)
Emeritus Professors
A. M. Ghadirian
C. Gianoulakis; Ph.D.
H. A. Guttmann; M.D.
J.C. Negrete; M.D., Dip.Psych.
G. Pinard, M.D.
S. Young

Professors
C. Benkelfat; M.D.(Rabat) (James McGill Professor)
D. Boivin; Ph.D.(Montr.)
P. Boksa; B.Sc., Ph.D.(McG.)
M. Bond; B.Sc., M.D.,C.M.(McG.)
J. Breitner; B.A.(Harv.), M.P.H.(Johns Hop.), M.D.(Penn.)
A. Brunet; Ph.D.(Montr.)
N. Cermakian; B.Sc.(UQTR), M.Sc., Ph.D.(Montr.)
M. Cole; B.Sc., M.D.,C.M.(McG.)
S. El Mestikawy; Ph.D.(Paris VI)
M.-J. Fleury; M.A., Ph.D.(Montr.)
C. Flores; B.Sc., M.A., Ph.D.(Cdia)
S. Gauthier; B.A., M.D.(Montr.)
B. Giros; M.Sc., Ph.D.(Paris VI)
A. Gratton; Ph.D.(Cdia)
J. Guzder; B.Sc., M.D.,C.M., F.R.C.P.
L.T. Hechtman; B.Sc., M.D.,C.M.(McG.)
R. Joober; M.D.(Tunisia), Ph.D.(McG.)
B. Kieffer; Ph.D.(Strasbourg)
S. King; Ph.D.(Virg.)
L.J. Kirnayer; B.Sc., M.D.,C.M., Dipl.Psych.(McG.) (James McGill Professor)
E. Latimer; B.A.Sc.(Wat.), M.S., Ph.D.(Carn. Mell)
M. Lepage; B.A.(Cdia), Ph.D.(UQAM)
M. Leyton; Ph.D.(Cdia) (William Dawson Scholar)
G. Luheshi; Ph.D.(Newcastle, UK)
A. Malla; M.B.B.S.(Panjab)
M.J. Meaney; B.A.(Loyola), M.A., Ph.D.(Cdia) (James McGill Professor)
V.N.P. Nair; M.B., B.S.(Kerala), D.P.M.(Mys.)
R. Palmour; B.A., Ph.D.(Texas)
J. Paris; M.D.,C.M.(McG.)
J.C. Perry; M.D.(Duke)
R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.) (Psychology)
J. Poirier; Ph.D.(Montr.)
R. Quirion; M.Sc., Ph.D.(Sher.)
C. Rousseau; M.Sc.(McG.), M.D.,C.M.(Sher.)
**Professors**

L.K. Srivastava; B.Sc., M.Sc.(Allahabad), Ph.D.(J. Nehru)

H. Steiger; Ph.D.(McG.)

B. Thombs; B.A.(Western), M.A.(Ariz.), Ph.D.(NYU)

G. Turecki; M.Sc., M.D.,C.M., Ph.D.(McG.) (*William Dawson Scholar*)

C.-D. Walker; B.Sc., Ph.D.(Geneva)

A. Young; B.A., M.A., Ph.D.(Penn.)

**Associate Professors**

J. Armony; B.Sc.(Buenos Aires), M.Sc., Ph.D.(NYU)

P. Assalian; Dip.Psychol.(McG.), M.B.,Ch.B.(Cairo)

S. Beaulieu; M.D./Ph.D.(Laval)

M. Berlim; M.Med., M.D.(Rio Grande do Sul)

V. Bohbot; B.A.(McG.), M.A., Ph.D.(Ariz.)

M.J. Brouillette; M.D.,C.M.(Sher.)

J. Caron; B.A., M.A.(Moncton), Ph.D.(UQAM)

N. Casacalenda; M.D.(Sher.), F.R.C.P.

E. Chachamovich; M.D.(Rio Grande do Sul), Ph.D.(Edin.)

D. Charney; M.D.,C.M.(McG.)

J.B. Debruille; M.D.(Paris XI), Ph.D.(Paris VI)

D. Dunkley; B.Sc.(Tor.), Ph.D.(McG.)

F. Elgar; M.Sc.(Nfld.), Ph.D.(Dal.)

P. Étienne; M.D.(Liege)

C. Fichten; B.Sc.(McC.), M.Sc.(C'dia), Ph.D.(McG.)

D. Frank; Dip.Psychol., M.D.,C.M.(McG.)

R. I. Fraser; M.D.(Dal.)

G. Galbaud du Fort; M.D., Ph.D.(Paris) (*joint appt. with Epidemiology and Biostatistics*)

K.G. Gill; B.Sc.(Br. Col.), M.A., Ph.D.(C'dia)

G. Gobbi; M.D.(Rome), Ph.D.(Cagliari)

I. Gold; Ph.D.(Princ.)

A. Granich; M.D.(McG.), F.R.C.P.

B. Greenfeld; M.D.(Wash.)

N. Grizenko; M.D.,C.M.(Sher.)

D. Groleau; B.Sc., M.Sc., Ph.D.(Montr.)

R. Gruber; B.A., M.S., Ph.D.(Tel Aviv)

K. Igartua; M.D.,C.M., F.R.C.P.(C)(McG.)

M. Israël; B.Sc., Gr.Dip.Psych.(McG.), M.A.(Qu.), M.D.,C.M.(McG.)

E. Jarvis; M.D.(Alta.), M.Sc.(McG.), F.R.C.P.

T. Kolivakis; M.D.(Athens)

M. Lalinec-Michaud; B.A., M.D.,C.M.(Paris IV)

K. Looper; B.Sc., M.D.(Ott.), M.Sc.(McG.)

O. Mantere; M.D.(Helsinki)

H. C. Margolese; M.D.(McG.), C.M., M.Sc.
### Associate Professors

- N. Mechawar; B.Sc., M.Sc., Ph.D.(Montr.)
- R. Montoro; M.D., C.M., M.Sc., F.R.C.P.(C)
- G. Myhr; M.D., C.M., M.Sc.(McG.)
- L. Nadeau; M.D.(Montr.)
- J. Naiman; B.A., M.D., C.M.(McG.)
- J. Palacios-Boix; M.D., F.R.C.P.(C)
- J. Pecknold; B.Sc.(C'dia), M.D., C.M.(McG.)
- M. Perreault; Ph.D.(Montr.)
- A. Propst; B.Sc., Dip.Psychol., M.D., C.M.(McG.)
- M.N. Rajah; B.Sc., M.A., Ph.D.(Tor.)
- R.A. Ramsay; B.Sc., Gr.Dip.Psychiat., M.D., C.M.(McG.)
- A. Raz; M.Sc., Ph.D.(Hebrew)
- J. Renaud; M.Sc., M.D.(Montr.)
- S. Renaud; M.D.(Laval)
- B.M. Robertson; Dip.Psychol.(McG.), M.B., Ch.B.(Otago)
- J. Rochford; M.A.(Qu.), Ph.D.(C'dia)
- P. Rosa; M.D.(Rio Grande do Sul), Ph.D.(Aarhus)
- Z. Rosberger; Ph.D.(C'dia)
- M. Ruiz Casares Yebenes; Ph.D.(Cornell)
- R. Russell; M.D.(McG.)
- N. Schmitz; Dipl., Ph.D.(Univ. Dortmund)
- S. Singh; M.D.(Calg.), F.R.C.P.
- D. Sookman; B.A.(McG.), M.A.(Guelph), Ph.D.(C’dia)
- W. Steiner; M.D., C.M.(McG.)
- F.K. Storch; M.Sc.(Munich); Ph.D.(Max Planck Inst. Biochem.)
- B. Suranyi-Cadotte; B.Sc., M.Sc.(McG.), M.D., C.M.(Montpellier)
- A. Wazana; B.A.(McM.), M.Sc.(Col.), M.Sc.(McG.), M.D.(McM.)
- S. Williams; Ph.D.(Montr.)
- G. Wiviott; B.Sc.(Wisc.), Gr.Dip.Psychiat.(McG.), M.D., C.M.(NYU)
- T.P. Wong; B.Sc., M.Ph.(HK), Ph.D.(McG.)
- P. Zelkowitz; Ph.D.(McG.)
- M. Zoccolillo; B.Sc.(New Orleans), M.D.(Norfolk)

### Assistant Professors

- L. Amirali; M.D.(Athens)
- D. Awad; M.D.(Montr.)
- S.M. Bailes; Ph.D.(C'dia)
- P. Bajsarowicz; M.D.(McG.), F.R.C.P.(C)
- E. Banon; M.D., C.M.(McG.)
- M. Barbarosie; M.D., Ph.D.(Montr.)
- L. Beauclair; B.Sc., M.D.(Laval)
- C. Beneirakis; Gr.Dip.Psychiat.(McG.), M.D.(Trin. Coll., Tor.)
Assistant Professors

R. Biskin; M.D., M.Sc.(McG.)
P. Bleau; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(Sher.)
D. Bloom; B.Sc.(Regina), M.D.(Qu.)
M. Boily; B.Sc., M.D.(Laval)
J. Bond; M.D.(Laval)
F. Bourque; M.D.(Laval), Ph.D.(KCNS)
I. Bradley; M.Sc.(Tor.), Ph.D.(Wat.)
M. Brandon; Ph.D.(Boston)
T.G. Brown; Ph.D.(C'dia)
A. Bucatel; M.D.(Nicolae Testemitanu St. Univ. of Med. and Pharm.)
J. Canfield; B.A.(New Br.), M.D.,C.M.(Dal.)
P. Cervantes; Dip.Psychol.(McG.), M.D.,C.M.(UAEM)
M. Chakavarty; Ph.D.(McG.)
M. Chammas; M.D.
R.M.E. Chenard-Soucy; M.D.(Montr.)
S. Choudhury; Ph.D.(Univ. Coll. Lond.)
P. Cote; B.A.(Laval), M.D.,C.M.(Laval/Ott.)
L. Creti; Ph.D.(C'dia)
H. Cvejic; M.D.(NUI)
L. Dabby; M.D.(Tor.)
M.E. Davis; Dip.Psychol., M.D.,C.M.(McG.)
P. Des Rosiers; M.D.(Sher.)
R. Desautels; B.Sc., M.D.,C.M.(McG.)
J. Desmarais; M.D.,C.M.(McG.)
M. Di Tomasso; M.D.(McG.)
J. Dornik; M.D.(McG.)
S. Ducharme; M.D.(Montr.)
H. Dymetryszyn; Ph.D.
M. Elie; B.Sc., M.D.,C.M.(McG.)
C.P. Ernst; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(McG.)
J. Errunza; M.D.(McG.)
K. Faridi; M.D.(Calg.)
K. Fathalli; M.D.(Tunis)
A. Fielding; M.D.,C.M.(McG.)
E. Foley; B.Sc.(Tor.)
J. Friedland; M.D.(Calg.)
G. Gagnon
M. Gauthier; M.D.,C.M.(Montr.)
K. Geagea; M.D.,C.M.(SJU)
M.-C. Geoffroy; Ph.D.(Montr.)
J. Glass; B.A.(Boston), M.D.,C.M.(McG.)
K. Goddard; M.D.,C.M.(Manit.)
### Assistant Professors

M. Grignon; B.A.(Montr./Ott.), M.A.(Ott.)

P. Habib; M.D.(Beirut Med. Sch.)

M. Habra; B.A.(McG.), M.A., Ph.D.(Br. Col.)

B. Hayton; B.A.(Williams), M.D.,C.M.(McG.)

L. Hoffman; M.D.(McG.)

F. Ianni; B.Sc.(McG.), M.D.,C.M.(Montr.)

H. Iskandar; Dip.Psychol.(McG.), M.B.,Ch.B.(Alexandria)

S. Iyer; M.A.(Mumbai), Ph.D.(Nebraska–Lincoln)

C. Jolicoeur; M.D.,C.M.(Laval)

J. Joly; M.D.,C.M.(McG.)

M. Kapuscinska; M.D.,C.M.(Medical U. Gdansk)

S. Karama; Ph.D.(Montr.)

F. Key

M. Koch; M.D.(McM.)

T. Kolivakis; M.D.(Athens)

R. Kronick; M.D.(McG.)

R. Kuyumjian; M.D.,C.M.(McG.)

P. Lageix; B.Sc., M.D.,C.M.(Paris IV)

S. Lamarre; B.A., M.D.,C.M.(Laval)

M. Laporta; Dip.Psychol., M.D.,C.M.(McG.)

L. Laporte; B.A.(McG.), M.Psychol., Ph.D.(Montr.)

M. Larose; M.D.(Laval)

M. Lashley; Ph.D.(McG.)

J.D. Leccia; M.D.(Provence Aix-Marseille)

E. Levy; Gr.Dip.Psychiat.(McG.), M.Ed.(Sher.)

E. Libman; B.A., M.Sc., Ph.D.(McG.)

E. Lizondo; M.D.,C.M.(Nat. Univ. Central Buenos Aires)

G.L. Low; B.A.(Qu.), Dip.Psychol.(McG.), M.D.,C.M.(Ott.)

N.C.P. Low; M.D., M.Sc.(McG.)

W. Ma; M.D., M.Sc.(Tongji), Ph.D.(McG.)

S. K. Margolese; Ph.D.

R. Martins; Ph.D.(Montr.)

N. Masrouha; M.D.(Sher.)

T. Measham; B.Sc., M.D.(McG.)

X. Meng; Ph.D.

M. Messier; B.A.(Montr.), M.B.A.(HEC)

G. Meterissian; Gr.Dip.Psychiat.(McG.), M.D.,C.M.(Montr.)

T.M. Milroy; B.Sc., M.D.,C.M.(Md.), Gr. Dip. Psychiat.(McG.)

M. Miresco; M.D.,C.M.(McG.)

F. Nazlie; M.D.

J.P. Near; Ph.D.(W. Ont.)

T. V. Nguyen; M.D.
Assistant Professors

K. O'Donnell; Ph.D.(Imp. Coll. Lon.)
J.A. O'Neel; B.A.(C'dia), Dip.Psychol., M.D.,C.M.(McG.)
M.A. Ouimet; D.M.D.(Sher.), Gr.Dip.Psychiat.(McG.)
M. Piat; Ph.D.(Laval)
L. Pinard; M.D.(Montr.), F.R.C.P(C)
Z. Prelevic; Dip.Psychol.(McG.), M.D.,C.M.(Belgrade)
A. Propst; M.D.
M. Rabinovitch; B.Sc., M.D.,C.M.(McG.)
S. Rej; M.D., M.Sc.(McG.)
S.B. Rosenbloom; B.A.(C'dia), M.A.(York)
C. Roy; B.Sc.(McG.), M.D.,C.M.(Dal.)
J. Russell; Ph.D.(McG.)
T. Said; B.Sc.(McG.), M.D.,C.M.(Sher.)
H. Schwartz; M.D.(McG.)
M. Segal; B.A.(C'dia), B.Sc.(O.T.)(McG.), M.D.,C.M.(Ott.)
J. Seguin; B.A., B.Sc., M.D.,C.M.(Ott.)
T. Semeniuk; B.Sc., M.Ed., M.D.,C.M.(Alta.)
J. Shah; M.Sc.(Lond.), M.D.(Tor.)
O. Sidhom; M.D.
M. Sigman; B.A.(McG.), M.A., Ph.D.(C'dia)
PP. Silveira; M.D., Ph.D.
I. Spector; B.A.(McG.), M.Sc., Ph.D.(Syrac.)
K.A. Steger; M.D., Ph.D.(Texas, Southwest. Med. Cent.)
L. Stern; M.D.(McG.)
A. St-Hilaire; M.Sc.(McG.), Ph.D.(Ohio)
M. St-Laurent; M.D.(Montr.)
N. Szkrumelak; B.Sc., M.D.,C.M.(McG.)
K. Tabbane; M.D., Ph.D.(Tunisia)
M. Temple; M.D.
P. Tetreault; M.D.,C.M.(Sher.)
L. Thaler; Ph.D.(Nevada)
L. Tourian; M.D.(McG.)
A. Traicu; M.D.(McG.)
J. Tremblay; B.A.(Montr.), M.Sc.(McG.), M.D.,C.M.(Montr.)
F. van den Eynde; M.A.(Florence), Ph.D.(King's College), M.D.(Ghent)
S. Vida; B.Sc.(Ott.), M.D.,C.M.(McG.)
S. Villeneuve; Ph.D.(Montr.)
J. Vogel; M.D.,C.M.(Manit.)
R. Whitley; B.S., M.S., Ph.D.(Lond.)
A. Wilner; B.A., M.D.,C.M.(McG.)
M.A. Wolf; M.Sc., M.D.,C.M.(Strasbourg)
Y. Wolf; M.D.(McG.)
**Assistant Professors**

G. Zahirney; M.D.(McG.)
T. Y. Zhang; Ph.D.(McG.)
V. Zicherman; B.Sc., M.D.,C.M.(McG.)
D. Zigman; M.D.(McG.)
E. Zikos; M.D.(Montr.)

**Lecturers**


**Associate Members**

R.C. Bagot, S. Bond, J.L. Derevensky, M. Drapeau, A. Evans, L. McVey, T. Montreuil, G. O’Driscoll, J. I. Trakadis, D. Zuroff

**Adjunct Professors**


**Post-Retirement**

D. P. Dastoor, J. P. Ellman

**10.11.21.5 Master of Science (M.Sc.) Psychiatry (Thesis) (45 credits)**

The M.Sc. in Psychiatry is administered by the Graduate Training Committee. Each student selects a Supervisory Committee composed of the research supervisor plus two to four other faculty who are knowledgeable about the student’s research area and who can advise both on appropriate coursework and on the thesis research project. The student will meet with this Supervisory Committee at least once during each year of matriculation for the purpose of evaluating academic and research progress of the student. The Supervisory Committee will also act as a resource body for the student, both with respect to academic and administrative matters.

**Thesis Courses (36 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYT 691</td>
<td>12</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>PSYT 692</td>
<td>12</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>PSYT 693</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

9 credits of graduate-level courses approved by the student’s Supervisory Committee.

Courses are selected on the basis of the area of research interest and the background of the student, and must include a course in statistical analysis if not presented upon admission.

**10.11.22 Surgery, Experimental**

**10.11.22.1 Location**

Surgery, Experimental
Montreal General Hospital, Room C9-169
1650 Cedar Avenue
Montreal QC H3G 1A4
Canada
Graduate Program Coordinator: Sharon Turner
Telephone: 514-934-1934, ext. 42837
Email: gradstudies.surgery@mcgill.ca
Experimental Surgery offers graduate-level training leading to an M.Sc. or a Ph.D. degree. At the master’s level, in addition to the core program, those who are interested have a new opportunity to choose a concentration in Surgical Innovation, Surgical Education, or Global Surgery. The Experimental Surgery Department is responsible for the administration of the graduate programs and allows excellent opportunities for training under the supervision of professors located in the Research Institute of the McGill University Health Centre or other McGill teaching hospitals. The scope of the research and close connections with other Montreal research centres and McGill departments provide ample opportunities for collaboration. Research in the Department covers a wide spectrum, including injury, repair, recovery, tissue engineering, transplantation, fibrosis, cancer and stem cell biology, biomechanics, organ failure, surgical stimulation, surgical innovation, education, and evaluative/outcomes research.

A list of research directors and their research topics is available on our website.

### Section 10.11.22.5: Master of Science (M.Sc.) Experimental Surgery (Thesis) (45 credits)

The M.Sc. core program is intended for students wishing to pursue careers in academia, the medical field, or industry. Thesis projects available in the various laboratories of the Department are multidisciplinary and ensure that students are exposed to a broad spectrum of research projects and experimental approaches. Students who have achieved superior progress in their research have the option to transfer to the Ph.D. program, waiving the M.Sc. thesis submission.

### Section 10.11.22.6: Master of Science (M.Sc.) Experimental Surgery (Thesis): Global Surgery (45 credits)

This concentration emphasizes healthcare needs specifically within the surgical field in resource-limited settings. It comprises three main pillars: research, education, and mentorship. Through extensive research work, students will participate in the design and implementation of innovative approaches in surgical care and injury surveillance, advancing the surgical capacities in low- and middle-income countries. Students will also participate in global surgical endeavors allowing professionals from partner countries and Canada to engage in a learning and knowledge transfer experience through training and courses. Students choosing this option will have the opportunity to engage in international projects and orient their work depending on their research interest (i.e., health economics, injury epidemiology, etc.) aligned with the Centre for Global Surgery's (CGS) mission.

### Section 10.11.22.7: Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Education (45 credits)

This concentration provides a foundation in surgical education practice and research. The program highlights the unique teaching and learning environment of surgery coupled with a basis in educational theory, curricular design, and implementation. A major emphasis of this program is surgical educational research with the elaboration, designs, implementation, and analysis of a research project founded in best practices of educational research. The research project may encompass, but is not limited to, surgical stimulation, technical skills acquisition, surgical technology, and assessment.

### Section 10.11.22.8: Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Innovation (45 credits)

This concentration is intended for residents interested in developing new devices and software solutions for surgical needs, as well as non-clinician trainees with a passion for healthcare technology. The program allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs-driven and marketable prototypes used in development of novel surgical and medical devices. As such, participants work in these teams to identify clinical needs and to innovate solutions to them.

### Section 10.11.22.9: Master of Science (M.Sc.) Experimental Surgery (Non-Thesis) (45 credits)

This is a graduate level training program in fundamentals of modern surgical research. The program is based primarily on academic course work and short projects. It is designed to be flexible and provide students the opportunity to gain knowledge in various surgical core disciplines while allowing training opportunities in more specific areas such as global surgery, innovation, education or as the interest of the students dictates.

### Section 10.11.22.10: Doctor of Philosophy (Ph.D.) Experimental Surgery

The doctoral program is intended for students with excellent academic standing who wish to pursue research-focused careers in academia, the medical field, or industry. Thesis projects, available in the various laboratories of the Department, ensure that students receive in-depth training and exposure to varied conceptual frameworks and a wide array of experimental strategies.

### Section 10.11.22.11: Graduate Certificate (Gr Cert.) Surgical Innovation (15 credits)

The centre of this graduate program is two innovation courses (EXSU 620 and EXSU 621) delivered by the McGill Department of Surgery. The first semester of the program focuses on team building and, supported by lectures, the students embark on a needs-finding process by observing all aspects of clinical activity in their focus themes. The trainees learn basic prototyping skills, start-up organization, and project management. This is supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This certificate then gives a solid non-thesis-based foundation in the innovation process.
The cores of this program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Surgery, Experimental Surgery (EXSU 620 Surgical Innovation 1 and EXSU 621 Surgical Innovation 2) and supporting courses are delivered by the McGill Department of Surgery with some sessions in those courses provided by external partners, Local Industry (Regulatory & IP), the John Molson School of Business (JMSB) (lean start-up), Concordia University (software design), and L’École de technologie supérieure (ETS) (prototyping). Secondly, fundamental business and management courses are taken concurrently provided by Continuing Studies (McGill) and JMSB and reinforce the innovation project team experience.

10.11.22.3 Experimental Surgery Admission Requirements and Application Procedures

10.11.22.3.1 Admission Requirements

**M.Sc. Core Program**

Usually a B.Sc., M.D., or D.V.M. degree is required, with a minimum CGPA of 3.2/4.0. Applications will be accepted from candidates sponsored by a research supervisor willing to provide laboratory space, funding, and direction for their research work.

**M.Sc. Concentrations**

Generally a B.Sc. in biological, biomedical and life science; physical science; computer science; an M.D. degree; or a B.Eng. is required. Exceptionally, on a case-by-case basis, an applicant holding a B.Com.; B.C.L./L.L.B.; or B.A. or B.Sc. in humanities and social sciences will be considered. An applicant must have a minimum CGPA of 3.2/4.0.

**Ph.D. Program**

Admission is usually through one of the M.Sc. programs, either upon completion of the M.Sc. degree, or by transfer from the first year of M.Sc. to the second year of Ph.D. studies, within the Department. Request for such transfer is to be made in writing by the thesis supervisor during the candidate's first year of M.Sc. studies. A candidate for transfer must submit an application to the doctoral program according to normal procedures and deadlines. **Transfer is granted on the basis of an examination administered by the student’s Research Advisory Committee.** Exceptional students with a minimum 3.5/4.0 CGPA may apply directly to the Ph.D. program.

Students with an M.Sc. degree from other departments or from other recognized universities whose M.Sc. topic is closely related to the subject of their Ph.D. research may be admitted directly into the Ph.D. program, at the level of Ph.D. 2, at the discretion of the Department. Exceptional students with a master's degree unrelated to their proposed research may be admitted to Ph.D. 1.

**Graduate Certificate and Graduate Diploma**

Generally a B.Sc. in biological, biomedical and life science; physical science; computer science; an M.D. degree; or a B.Eng. is required. Exceptionally, on a case-by-case basis, an applicant holding a B.Com.; B.C.L./L.L.B.; or B.A. or B.Sc. in humanities and social sciences will be considered. An applicant must have a minimum CGPA of 3.2/4.0.

**10.11.22.3.2 Application Procedures**

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply).

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

**10.11.22.21 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- Research Project Proposal
- Confirmation of Supervisor
- Memorandum of Agreement
- Tuition Assistance

**Additional Requirements for the Concentrations in Surgical Education and Surgical Innovation**

- Letter of Intent – A letter of intent from the students describing their reasons for pursuing the concentration of their choice, what their qualifications are, and why they should be accepted.
- Interview session – Students applying to the concentration in Surgical Education or in Surgical Innovation may be requested to attend an interview session either in person, by phone, or via Skype.

**10.11.22.3.3 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by Experimental Surgery and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).
<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term*:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Application to the Graduate Certificate in Surgical Innovation is only available for the Fall term.*

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 10.11.22.4 Surgery, Experimental Faculty

**Director**

A. Philip

**Associate Director**

L. Haglund

**Professors**

J. Antoniou; M.D.,C.M., Ph.D.(McG.), F.R.C.S.(C)
A. Aprikian; M.D.(Sher.), F.R.C.S.(C)
J. Barkun; M.D., M.Sc.(McG.)
J. Barralet Beng; Ph.D.(Lond.)
P. Brodt; B.Sc.(Bar-Ilan), M.Sc.(Ott.), Ph.D.(McG.)
S. Chevalier; B.Sc., M.Sc., Ph.D.(Montr.)
P. Chan; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C)
M.M. Elhilali; M.B., B.Ch., D.S., DU, M.Ch.(Cairo), Ph.D.(McG.)
S. Emil; M.D.,C.M., Ph.D.(McG.)
L. Feldman; M.D.,C.M., M.Sc.(McG.)
L. Ferri; M.D.,C.M., M.Sc.(McG.)
G.M. Fried; B.Sc., M.D.,C.M.(McG.)
P.H. Gordon; M.D.(Sask.)
R. Hamdy; M.Sc., M.D.(Egypt), F.R.C.S.(C)
E. Harvey; B.Sc.(Ont.), M.D.,C.M., M.Sc.(McG.)
T.E. Hebert; Ph.D.(Tor.)
J.E. Henderson; Ph.D.(McG.)
J.M. Laberge; M.D.(Laval)
S. Meterissian; M.D.,C.M., M.Sc.(McG.)
P. Metrakos; B.Sc., M.D.(McG.), F.R.C.S.(C)
D.S. Mulder; M.D.(Sask.), M.Sc.(McG.)
A. Philip; M.Sc., Ph.D.(McG.)
L. Rosenberg; M.Sc., M.D., Ph.D.(McG.)
D. Shum-Tim; M.Sc., M.D.,C.M.(McG.)
R. St. Arnaud; Ph.D.(Laval)
### Professors

- T. Takeo-Hosotani; B.Sc., M.Sc., Ph.D.(Kyoto)
- M. Tanzer; M.D., C.M.(McG.), F.R.C.S.(C)
- C.I. Tchervenkov; B.Sc., M.D., C.M.(McG.), F.R.C.S.(C)
- J.I. Tchervenkov; M.D., C.M.(McG.), F.R.C.S.(C)
- R. Turcotte; M.D.(Montr.)

### Associate Professors

- M. Basik; M.D., C.M., M.Sc.(McG.)
- S. Bergman; M.Sc., M.D., C.M.(McG.), F.R.C.S.(C)
- O. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.)
- R. Cecere; M.D., C.M., B.Sc.(McG.), F.R.C.S.(C), A.B.S., F.A.C.S.
- D. Fleiszner; B.Sc., M.D., C.M.(McG.)
- S. Fraser; B.Sc., M.D.(Tor.), M.Sc.(McG.), F.R.C.S.(C)
- M. Gilardino; M.D., C.M., M.Sc.(McG.), F.R.C.S.(C), F.A.C.S.
- L. Haglund; B.Sc., Ph.D.(Lund)
- K.J. Lachapelle; M.Sc., M.D., C.M.(McG.)
- J. Lapointe; M.D., Ph.D.(Laval)
- L. Lessard; B.Sc., M.D.(Laval), F.R.C.S.(C)
- C. O'Flaherty; D.V.M., Ph.D.(Buenos Aires)
- S. Paraskevas; M.D., Ph.D.(Laval)
- P. Puligandla; M.D., M.Sc.(W. Ont.), F.R.C.S.(C)
- J. Sampalis; M.Sc., Ph.D.(McG.)
- T. Steffen; M.D.(Switz.), Ph.D.(McG.)
- A. Thomson; Ph.D.(Lond.)
- D. Zukor; B.Sc., M.D., C.M.(McG.)

### Assistant Professors

- A. Dragomir; M.Sc., Ph.D.(Montr.)
- J. Faria; M.D., C.M., M.Sc.(McG.), F.R.C.S.(C)
- J. Fiore; M.Sc.(Fed. U. Sao Paulo), Ph.D.(Melb.)
- L. Haglund; B.Sc., Ph.D.(Lund)
- O. Huk; B.Sc., M.D., C.M.(McG.), M.Sc.(Montr.)
- P. Jarzem; B.Sc., M.D.(Qu.)
- E. Lee; B.A.(Boston), M.Sc., Ph.D.(McG.)
- K. Mackenzie; B.Sc.(Br. Col.), M.D., C.M.(McG.), F.R.C.S.(C)
- E. Mitmaker; M.D.(TJU), M.Sc.(McG.), F.R.C.S.(C)
- M. Petropavlovskaaia; M.Sc., Ph.D.(Moscow)
- N. Saran; M.D., B.Sc.(Br. Col.)
- K. Shaw; M.D., C.M., M.Sc.(McG.)

### Associate Members

- M.N. Burnier
- M. Cantarovich
### Associate Members

- J.C. Chen
- F. Cury
- C.E. Ferland-Legault
- P. Goldberg
- A. Gursahaney
- J. Henderson
- D. Juncker
- S. Komarova
- J.J. Lebrun
- N.M. Makhoul
- S. Mayrand
- M. Murshed
- P.H-N. Nguyen
- S. Prakash
- L.A. Stein
- M. Tabrizian
- B.M. Willie

### Professor of Practice

- S. Arless; B.Sc.(McG.)

---

**10.11.22.5 Master of Science (M.Sc.) Experimental Surgery (Thesis) (45 credits)**

The M.Sc. in Experimental Surgery offers a graduate-level training program in experimental surgery, leading to a Master's degree. This program allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs driven, and marketable prototypes used in development of novel surgical and medical devices. As such participants work in multidisciplinary teams. The program offers both specialized and broad-based training through the use of the most recent techniques in molecular biology, biochemistry, pharmacology, physiology, pathology, bio-informatics, and genomics.

#### Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSU 690</td>
<td>(4)</td>
<td>M.Sc. Research 1</td>
</tr>
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<td>EXSU 691</td>
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<td>EXSU 692</td>
<td>(4)</td>
<td>M.Sc. Research 3</td>
</tr>
<tr>
<td>EXSU 693</td>
<td>(18)</td>
<td>M.Sc. Thesis</td>
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#### Required Courses (12 credits)

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<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>EXSU 601</td>
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<td>Knowledge Management</td>
</tr>
<tr>
<td>EXSU 605</td>
<td>(3)</td>
<td>Biomedical Research Innovation</td>
</tr>
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</table>

And:

3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 575</td>
<td>(3)</td>
<td>Statistics for Practitioners</td>
</tr>
<tr>
<td>EPIB 507</td>
<td>(3)</td>
<td>Biostats for Health Sciences</td>
</tr>
<tr>
<td>EXSU 606</td>
<td>(3)</td>
<td>Statistics for Surgical Research</td>
</tr>
</tbody>
</table>
Complementary Courses (3 credits)

3 credits, taken from 500, 600, or 700 level courses in consultation with the Research Advisory Committee. Depending on their individual background, students may be asked by their Research Supervisory Committee to take additional courses.

10.11.22.6 Master of Science (M.Sc.) Experimental Surgery (Thesis): Global Surgery (45 credits)

The M.Sc. in Experimental Surgery, Concentration in Global Surgery, emphasizes health care needs specifically within the surgical field in resource-limited settings. It comprises three main pillars: research, education, and mentorship. Through extensive research work, students will participate in the design and implementation of innovative approaches in surgical care and injury surveillance, advancing the surgical capacities in low and middle income countries. Students will also participate in global surgical endeavors allowing professionals from partner countries and Canada to engage in a learning and knowledge transfer experience through training and courses. Students choosing this option will have the opportunity to engage in international research projects including injury epidemiology surveillance and assessment of surgical access through the study of databases. The thesis must be relevant to global surgery.

Thesis Courses (30 credits)

EXSU 690 (4) M.Sc. Research 1
EXSU 691 (4) M.Sc. Research 2
EXSU 692 (4) M.Sc. Research 3
EXSU 693 (18) M.Sc. Thesis

Required Courses (12 credits)

EPIB 507 (3) Biostats for Health Sciences
EPIB 521 (3) Regression Analysis for Health Sciences
EXSU 601 (6) Knowledge Management

Complementary Courses (3 credits)

3 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee. Depending on their individual backgrounds, students may be asked by their Research Advisory Committee to take additional courses.

10.11.22.7 Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Education (45 credits)

The M.Sc. in Experimental Surgery, Concentration in Surgical Education, provides a foundation in surgical education practice and research. The program highlights the unique teaching and learning environment of surgery coupled with a basis in educational theory, curricular design, and implementation. A major emphasis of this program is surgical educational research with the elaboration, designs, implementation, and analysis of a research project founded in best practices of educational research. The research project may encompass, but is not limited to, surgical stimulation, technical skills acquisition, surgical technology, and assessment.

Thesis Courses (30 credits)

EXSU 690 (4) M.Sc. Research 1
EXSU 691 (4) M.Sc. Research 2
EXSU 692 (4) M.Sc. Research 3
EXSU 693 (18) M.Sc. Thesis

Required Courses (9 credits)

EDPH 689 (3) Teaching and Learning in Higher Education
EXSU 603 (3) Skills Acquisition and Performance
EXSU 605 (3) Biomedical Research Innovation

Complementary Courses (6 credits)

3 credits from the following:
Statistics for Practitioners (3) EDPE 575
Issues in Health Professions Education (3) EDPE 637
Statistics for Surgical Research (3) EXSU 606

And:

3 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

Depending on their individual backgrounds, students may be asked by their Research Advisory Committee to take additional courses.

10.11.22.8 Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Innovation (45 credits)

The M.Sc. in Experimental Surgery, Concentration in Surgical Innovation, offers graduate-level training program in experimental surgery, leading to a Master's degree. This concentration allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs driven, and marketable prototypes used in development of novel surgical and medical devices. As such participants work in multidisciplinary teams to identify clinical needs and to innovate solutions to them.

Thesis Courses (30 credits)

EXSU 690 (4) M.Sc. Research 1
EXSU 691 (4) M.Sc. Research 2
EXSU 692 (4) M.Sc. Research 3
EXSU 693 (18) M.Sc. Thesis

Required Courses (12 credits)

EXSU 605 (3) Biomedical Research Innovation
EXSU 620 (3) Surgical Innovation 1
EXSU 621 (3) Surgical Innovation 2

And:

3 credits from the following:

EDPE 575 (3) Statistics for Practitioners
EPIB 507 (3) Biostats for Health Sciences
EXSU 606 (3) Statistics for Surgical Research

Complementary Courses (3 credits)

3 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

10.11.22.9 Master of Science (M.Sc.) Experimental Surgery (Non-Thesis) (45 credits)

This M.Sc. in Experimental Surgery (Non Thesis) offers a graduate level training program in core fundamentals of modern surgical research. The program is based primarily on academic course work and short projects. It is designed to be flexible and provide students the opportunity to gain core disciplines whilst allowing training opportunities in more specific areas such as global surgery, innovation, education, or as the interest of the students dictates. The individual research interests of the faculty cover a wide spectrum, from injury, repair, recovery, tissue engineering, transplantation, fibrosis, cancer and stem cell biology, biomechanics, and organ failure, to surgical simulation, surgical innovation, education, and evaluative/outcomes research. Importantly, the project(s) is performed in a collaborative spirit with basic and clinician scientists working together using interdisciplinary approaches to solve the most challenging problems in the field of surgery. Upon graduation, students will have acquired core skills on statistics, knowledge management, biomedical research, epidemiology as well as education, global surgery, and innovation.

Required Courses (27 credits)

EXSU 601 (6) Knowledge Management
EXSU 603 (3) Skills Acquisition and Performance
EXSU 605 (3) Biomedical Research Innovation
Surgery Research Project 1 (EXSU 622D1) (6)
Surgery Research Project 1 (EXSU 622D2) (6)

And:

3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 575</td>
<td>(3)</td>
<td>Statistics for Practitioners</td>
</tr>
<tr>
<td>EPIB 507</td>
<td>(3)</td>
<td>Biostats for Health Sciences</td>
</tr>
<tr>
<td>EXSU 606</td>
<td>(3)</td>
<td>Statistics for Surgical Research</td>
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</table>

**Complementary Courses (12 credits)**

6 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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<td>EDPH 689</td>
<td>(3)</td>
<td>Teaching and Learning in Higher Education</td>
</tr>
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<td>EPIB 507</td>
<td>(3)</td>
<td>Biostats for Health Sciences</td>
</tr>
<tr>
<td>EPIB 521</td>
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<td>Regression Analysis for Health Sciences</td>
</tr>
<tr>
<td>EXSU 620</td>
<td>(3)</td>
<td>Surgical Innovation 1</td>
</tr>
<tr>
<td>EXSU 621</td>
<td>(3)</td>
<td>Surgical Innovation 2</td>
</tr>
</tbody>
</table>

Note: Students either take EDPE 637 and EDPH 689; or EPIB 507 and EPIB 521; or EXSU 620 and EXSU 621.

6 credits selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANAT 690D1</td>
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<td>ANAT 690D2</td>
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<td>BMDE 653</td>
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<td>Patents in Biomedical Engineering</td>
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<td>BMDE 654</td>
<td>(3)</td>
<td>Biomedical Regulatory Affairs - Medical Devices</td>
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<tr>
<td>BMDE 655</td>
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<td>Biomedical Clinical Trials - Medical Devices</td>
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<tr>
<td>DENT 669</td>
<td>(3)</td>
<td>Extracellular Matrix Biology</td>
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<tr>
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<td>Biotechnology and Entrepreneurship</td>
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<tr>
<td>EXSU 620</td>
<td>(3)</td>
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<td>EXSU 621</td>
<td>(3)</td>
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<tr>
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<td>EPIB 681</td>
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<td>Global Health: Epidemiological Research</td>
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<td>EXSU 684</td>
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<td>Signal Transduction</td>
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<td>FMED 619</td>
<td>(3)</td>
<td>Program Management in Global Health &amp; Primary Health Care</td>
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<td>PHGY 517</td>
<td>(3)</td>
<td>Artificial Internal Organs</td>
</tr>
<tr>
<td>PHGY 518</td>
<td>(3)</td>
<td>Artificial Cells</td>
</tr>
</tbody>
</table>
PHGY 550  (3)  Molecular Physiology of Bone
PHYS 511  (3)  Fundamentals of Global Health
PHYS 529  (3)  Global Environmental Health and Burden of Disease

Electives (6 credits)
6 credits taken from 500-, 600-, or 700-level courses at the University will be taken with the approval of the director of the program/adviser.

10.11.22.10 Doctor of Philosophy (Ph.D.) Experimental Surgery

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

<table>
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<tr>
<th>Course</th>
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<tr>
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And:

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<tr>
<td>EDPE 575</td>
<td>3</td>
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<tr>
<td>EPIB 507</td>
<td>3</td>
</tr>
<tr>
<td>EXSU 606</td>
<td>3</td>
</tr>
</tbody>
</table>

Complementary Course (3 credits)
One graduate-level course in the student's specialty, selected in consultation with the Research Supervisory Committee.

10.11.22.11 Graduate Certificate (Gr Cert.) Surgical Innovation (15 credits)
The core of this 15-credit graduate program consists of two innovation courses (EXSU 620 and EXSU 621) delivered by McGill Department of Surgery, with some sessions offered by external partners: John Molson School of Business (lean start-up), Concordia (software design), Local Industry (Regulatory & IP), and ETS (prototyping). The first semester of the program core focuses on team building and, supported by lectures, the students embark on a needs-finding process by observing all aspects of clinical activity in their focus themes. Trainees learn basic prototyping skills, start-up organization and project management, supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This certificate provides a solid foundation in the innovation process.

Required Courses (12 credits)

9 credits in:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EXSU 605</td>
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<tr>
<td>EXSU 620</td>
<td>3</td>
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<tr>
<td>EXSU 621</td>
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And:

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<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EDPE 575</td>
<td>3</td>
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<tr>
<td>EPIB 507</td>
<td>3</td>
</tr>
<tr>
<td>EXSU 606</td>
<td>3</td>
</tr>
</tbody>
</table>
Elective Courses (3 credits)
3 credits at the 500 level or higher, chosen in consultation with the program director.
Some courses may be substituted with equivalents if timetabling requires it.

Graduate Diploma (Gr. Dip.) Surgical Innovation (30 credits)

The cores of this 30-credit program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Experimental Surgery (EXSU 620-Surgical Innovation & 621-Surgical Innovation 2) and supporting courses are delivered by the McGill Department of Surgery with some sessions in those courses provided by external partners: Local Industry (Regulatory & IP), the John Molson School of Business (JMSB) (lean start-up), Concordia University (software design), and L’École de technologie supérieure (ETS) (prototyping). Secondly, fundamental business and management courses provided by the School of Continuing Studies (McGill) and JMSB are taken concurrently and reinforce the innovation project team experience. Students embark on a hospital-based needs finding process by observing all aspects of clinical activity in their focus themes. The trainees learn basic prototyping skills, start-up organization, and project management. This is supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This graduate diploma then gives a business-oriented training in the surgical innovation process.

Required Courses (15 credits)

12 credits in:
- CORG 556 (3) Managing and Engaging Teamwork
- EXSU 605 (3) Biomedical Research Innovation
- EXSU 620 (3) Surgical Innovation 1
- EXSU 621 (3) Surgical Innovation 2

And:

3 credits from the following:
- EDPE 575 (3) Statistics for Practitioners
- EPIB 507 (3) Biostats for Health Sciences
- EXSU 606 (3) Statistics for Surgical Research

Complementary Courses (9 credits)

- CACC 520 (3) Accounting for Management
- CMR2 542 (3) Marketing Principles and Applications
- CPL2 510 (3) Communication and Networking Skills

Or:

9 credits of graduate-level courses taken at Concordia University, chosen in consultation with the program director/adviser.

Elective Courses
6 credits at the 500 level or higher, taken in consultation with the program director/adviser.
Some courses may be substituted with equivalents at the 500 level or higher if timetabling or background of the student requires it, e.g., prior qualification in accounting.

11 Schulich School of Music

11.1 Dean’s Welcome

To Graduate Students and Postdoctoral Fellows:
Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

11.2 Graduate and Postdoctoral Studies

11.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

11.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.

11.2.3 Graduate and Postdoctoral Studies’ Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

11.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

11.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

11.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:
11.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

11.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

11.8 Postdoctoral Research

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

11.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

11.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfil the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
vi. Some examples of responsibilities of Postdocs are:

• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

11.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

11.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

11.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec's definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage.

Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.
**Category 4:** An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfils criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

**Note:** Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

**General Conditions**
- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

11.9 **Graduate Studies Guidelines and Policies**

Refer to *University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies* for information on the following:
- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

11.10 **Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees**

Refer to *University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees* for information on the following:
- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

11.11 **Browse Academic Units & Programs**

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.
11.11 Schulich School of Music

11.11.1 Location

Schulich School of Music
Strathcona Music Building
555 Sherbrooke Street West
Montreal QC H3A 1E3
Canada
Telephone: 514-398-4469
Fax: 514-398-1540
Website: www.mcgill.ca/music

11.11.2 About Schulich School of Music

The Schulich School of Music of McGill University is internationally renowned for its leadership in combining professional conservatory-style musical training, humanities-based scholarship, and scientific-technological research at the highest levels. Its programs encourage musicians and music researchers alike to push boundaries and explore new possibilities. The School’s facilities are a physical affirmation of our commitment and belief in the future of music, artists, creators, and researchers, and they encourage multimedia productions and trans-disciplinary collaborations. Among the most notable facilities are:

- a music library that houses one of the most important academic music collections in Canada;
- four concert halls;
- the Digital Composition Studio;
- sound recording studios;
- the Centre for Interdisciplinary Research in Music, Media and Technology (CIRMMT);
- as well as a research network that links the Faculty with other University departments and research institutes.

Nestled in the heart of the city, the School also draws on the rich cultural life of Montreal—a bilingual city with a celebrated symphony orchestra, dozens of annual festivals, and hundreds of live music venues hosting world-class concerts.

The Master of Arts degree (M.A.) is available as a thesis option in Music Education, Music Technology, Musicology (with an option in Gender and Women’s Studies), and Theory (with an option in Gender and Women’s Studies), and as a non-thesis option in Music Education, Musicology, and Theory.

The Master of Music degree (M.Mus.) is available in Composition, Performance, and Sound Recording. Specializations offered within the performance option are: piano, guitar, orchestral instruments (including orchestral training), organ and church music, conducting, collaborative piano, opera and voice, early music, and jazz.

The Graduate Diploma in Performance is a one-year graduate diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects.

The Graduate Artist Diploma in Performance is the uppermost diploma offered at the Schulich School of Music. It is tailored for artists wishing to achieve the highest level of artistry in their craft.

The Doctor of Music degree (D.Mus.) is offered in Composition and Performance Studies while the Doctor of Philosophy degree (Ph.D.) is available in Composition, Music – Gender and Women’s Studies, Music Education, Musicology, Music Technology, Sound Recording, and Theory. Interdisciplinary studies are encouraged.

Funding

The Schulich School of Music has several sources of funding for graduate students.

Entrance Excellence Scholarships for highly ranked graduate students (including Schulich Scholarships, Max Stern Fellowships, and McGill Excellence Fellowships) typically range in value from $1,500 to $15,000; some two- and three-year multi-year packages are available at the master's and doctoral levels, respectively (see www.mcgill.ca/gps/funding). A limited number of one-year differential fee waivers are also available for the most highly ranked incoming international students. The Scholarships and Student Aid Office offers information and options for out-of-province, American, and other international students (see www.mcgill.ca/studentaid).

In-course students may compete for a small number of Excellence Scholarships awarded annually to recognize excellence in academic and performance achievement.

The Schulich School of Music also has a renowned mentoring program that helps students develop applications for a wide variety of external funding for national, international, and university competitions (CIRMMT Research, DAAD, Fulbright, NSERC, NSERC Discovery, Connection grants, SSHRC, Vanier, etc.), including various arts and cultural organizations (recordings, commissions, production artistic development). Some provide for multi-year funding, others funding for individual projects.

Opportunities for funding through Work Study and as teaching assistants also provide professional training. Positions include TAs, invigilators, apprentice writers for program notes, sound recording technicians, library assistants, stage hands, Opera Studio, and front-of-house staff, among others. Positions for teaching assistantships are advertized each semester by departmental announcement. Typically there are few, if any, TA positions available for students in their first year of study. Posts are advertized through the Music Research and Performance Departments at the beginning of each semester and through the Work Study website.
A variety of research assistantships in selected areas are also available. Inquiries should be directed to the supervisors, Associate Dean of Graduate Studies in Music, and the Associate Dean for Research (see www.mcgill.ca/music/people-research/staff-directory).

Opportunities for paid performances in the community for soloists, choristers, chamber ensembles, organists, orchestral and jazz musicians, and piano collaborators are facilitated through the Booking Office (see www.mcgill.ca/music/people-research/staff-directory).

The Schulich School of Music also provides travel funding for conferences and special performance and research initiatives. Graduate students may apply once per academic year; see www.mcgill.ca/music/student-resources/grads-postdocs/forms.

**Master's Programs**

section 11.11.1.5: Master of Music (M.Mus.) Music: Composition (Thesis) (45 credits)

Students in the M.Mus. program develop their own individual voices through private instruction with some of Canada’s most accomplished composers, all of whom have distinguished themselves through high-profile commissions, performances, recordings, and awards. The faculty members' diverse interests ensure that students will find a suitable mentor/supervisor. The resources of the Digital Composition Studios also offer students an opportunity to work with a wide range of cutting-edge approaches to music technology, including mixed works, interactive composition, gestural controllers, acousmatic works, multichannel audio, computer-assisted composition, and more. Students also benefit from international new music festivals and conferences co-sponsored by the Schulich School of Music, a visiting artist series, and high-quality performances, readings, and recordings of their works by some of the school’s most esteemed ensembles (e.g., McGill Symphony Orchestra, McGill Contemporary Music Ensemble, etc.) and advanced performers. Commissioning opportunities exist through an established composer-in-residence program and through student-initiated performer-composer and interdisciplinary collaborations.

Graduates have continued their studies at the doctoral level and then gone on to win prestigious awards (e.g., Jules Leger Prize); they also have successful careers in composition, film, literature, conducting, and teaching.

For more information, see www.mcgill.ca/music/programs/mmus-composition.

section 11.11.1.6: Master of Arts (M.A.) Music: Music Education (Thesis) (45 credits)

This program provides an opportunity for studio- and classroom-based teachers, and music educators working in other community settings, to explore current issues in music education and to implement their own research studies. Seminars develop facility in a breadth of research methodologies and examine pertinent research developments in different fields, while simultaneously providing opportunities to link with other departments such as the faculties of Education, Cognitive Psychology, and Physiology. Ties with The Centre for Interdisciplinary Research in Music, Media, and Technology (CIRMMT), and Teaching and Learning Services provide a strong supportive network for interdisciplinary and multilingual research. Experienced faculty publishes regularly in the field’s leading journals and focuses on the physiological basis of musical performance, development, technology, and global and community-based music education movements including El Sistema, among others.

Graduates of the program continue on to doctoral studies and pursue teaching careers around the world in various settings.

For more information, see www.mcgill.ca/music/programs/ma-music-education.

section 11.11.1.7: Master of Arts (M.A.) Music: Music Technology (Thesis) (45 credits)

The M.A. in Music Technology is the only program of its kind in the world to apply cutting-edge scientific research to music and music making. Students are accepted from a wide range of musical backgrounds. Research goals are tied to the work of the area’s five faculty members and include the development of new and flexible strategies for sound analysis, real-time processing, synthesis and gestural control, instrument design, melodic pattern recognition, auditory display, music information retrieval, and symbolic manipulation of formal music representations, as well as the psychoacoustics of musical sounds and structures, among others. Students' research is supported by the six laboratories forming the large multidisciplinary research infrastructure of The Centre for Interdisciplinary Research in Music, Media and Technology (CIRMMT), and almost unlimited technological resources (e.g., computing power, storage, measuring devices including several motion-capture systems). The Digital Composition Studio and state-of-the-art recording and acoustical environments provide opportunities to collaborate with accomplished performers and researchers in other music disciplines.

Graduates hold commercial positions related to media technologies (e.g., gaming and audio industries) and continue their studies at the doctoral level in preparation for academic careers.

For more information, see www.mcgill.ca/music/programs/ma-music-technology.

section 11.11.1.8: Master of Arts (M.A.) Music: Musicology (Thesis) (45 credits)

This program is for students interested in developing research projects that bridge traditional methodologies with new critical approaches in musicology. The area’s humanistic orientation emphasizes the importance of political, social, and literary history, while also encouraging students to develop their skills in musical analysis, their sensitivity to different styles and performance practices, and their awareness of issues in aesthetics. Students receive guidance from leading scholars whose internationally acclaimed research ranges from medieval and renaissance music to the popular music of today. Collaborations with students from other areas and the doctoral program in seminars facilitate out-of-the-box thinking; opportunities to explore interdisciplinary research topics also exist through links with other departments, the Institute for the Public Life of Art and Ideas, and the Centre for Interdisciplinary Research in Music, Media, and Technology. The area also provides valuable pedagogical training through teaching assistantships in undergraduate music history courses.

Graduates often continue their studies at the doctoral level at McGill and other major North American universities; others pursue careers in teaching, arts management, music business, journalism, and archival curation, among others.

For more information, see www.mcgill.ca/music/programs/ma-musicology.
section 11.11.1.9: Master of Arts (M.A.) Music Musicology (Thesis): Gender and Women’s Studies (45 credits)

This program is open to students who qualify for the M.A. in Musicology (thesis option) who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women’s studies. Musicology requirements are augmented by participation in a Graduate Feminism Symposium that engages with a diverse array of critical and empirical perspectives. The program draws on the resources of the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University. Supporting music faculty has interests in opera, film studies, aesthetics, theory of performance, and popular/jazz studies.

For more information, see www.mcgill.ca/music/programs/ma-musicology.

section 11.11.1.10: Master of Music (M.Mus.) Sound Recording (Non-Thesis) (60 credits)

This internationally renowned program is a course-based, professional training program designed for musicians who wish to develop the skills required in the music recording and media industries. It is based on the German Tonmeister program and offers extensive, hands-on opportunities to record a broad spectrum of solo recitals, large opera, and symphonic repertoire with soloists and choirs, and complex Jazz Band and pop idioms. McGill’s professional-quality facilities provide state-of-the-art equipment for research and the recording of any size of ensemble in high-resolution multichannel audio and high-definition video, and include a variety of audio recording studios equipped for surround recording, four concert hall recording spaces, a technical ear training lab, an orchestral film scoring stage, an opera studio, and post-production and editing suites. The Faculty includes prominent researchers as well as award-winning recording engineers and producers in the fields of music production, television, and film sound familiar with cutting-edge technologies and new developments. The program also has close ties with industry that facilitate opportunities for internships.

Graduates are leaders in the field working in highly respected studios around the world and winning both creative and scientific international competitions.

For more information, see www.mcgill.ca/music/programs/mmasound-recording.

section 11.11.1.11: Master of Arts (M.A.) Music: Theory (Thesis) (45 credits)

The M.A. in Theory is for students interested in exploring how specific pieces of music are put together and how this understanding may be generalized to relate to the way other pieces of music are composed. Music theory and elective seminars develop expertise in various analytical models and familiarity with the critical issues that define the discipline as a basis for developing individual research projects. Collaborations with students from other areas and the doctoral program in seminar discussions facilitate out-of-the-box thinking; opportunities to explore interdisciplinary research topics in perception and cognition exist through collaborations with music researchers from the Centre for Interdisciplinary Research in Music, Media and Technology. The area also provides valuable pedagogical training through teaching assistantships in undergraduate theory courses. The Faculty has a breadth of experience in early music theory, formal functions, Schenkerian analysis, mathematical models, theories of rhythm and meter, serialism, and popular music analysis.

Graduates have been accepted into doctoral programs at McGill, Yale, Eastman, Harvard, Columbia, Oxford, and Cambridge, among others.

For more information, see www.mcgill.ca/music/programs/ma-theory.

section 11.11.1.12: Master of Arts (M.A.) Music Theory (Thesis): Gender and Women’s Studies (45 credits)

This program is open to students who qualify for the M.A. in Theory (thesis option) who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women’s studies. Theory requirements are augmented by participation in a Graduate Feminism Symposium that engages with a diverse array of critical and empirical perspectives. The program draws on the resources of the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University.

For more information, see www.mcgill.ca/music/programs/ma-theory.


This course-based program has options in music education, musicology, and theory. Seminars provide breadth of disciplinary knowledge and understanding of research methodologies and critical issues. Expertise in two areas is developed through two written papers. Students receive guidance from leading scholars whose internationally acclaimed research covers a broad spectrum of topics central to each discipline. Collaborations with students from other areas and the doctoral program in seminars facilitate out-side-the-box thinking.

The option in Music Education provides an opportunity for studio-, classroom-, and community-based music educators to read, understand, and apply research studies in different fields to their own practices.

The option in Musicology is for students interested in a humanistic orientation to topics in music history and musicology that bridges traditional methodologies with new critical approaches.

The option in Theory develops skill with different analytical models and the ways in which they may be used to explore how specific pieces of music are put together.

Some graduates continue to doctoral studies; others pursue careers in teaching, arts management, music business, journalism, and librarianship, among others.

For more information, see www.mcgill.ca/music/admissions/graduate/masters.
section 11.11.1.16: Master of Music (M.Mus.) Performance: Jazz Performance (Thesis) (45 credits)

The M.Mus. in Jazz Performance is flexibly designed to offer specialization in Jazz Composition, Jazz Performance, and Jazz Orchestra training. All students take courses in jazz pedagogy, composition, and arranging, and benefit from close interaction with a diverse, creative, and professionally active faculty. A recital and a CD recording of original music are the principal thesis requirements. Our outstanding ensembles include the McGill Jazz Orchestra, the ten-piece McGill Chamber Ensemble, two more jazz orchestras, a saxophone ensemble, and over twenty jazz combos. Teaching opportunities vary from year to year, but are generally available in Jazz Theory, Jazz Ear Training, Jazz Orchestra 3, Jazz Improvisation, and Jazz Combo. Montreal’s vibrant jazz scene also provides rich opportunities for performance and musical engagement.

Graduates have active touring careers, teach in university jazz programs, and have produced recordings that have earned Juno awards.

For more information, see [www.mcgill.ca/music/programs/mmus-jazz](http://www.mcgill.ca/music/programs/mmus-jazz).

section 11.11.1.17: Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

Established in 1975, this program is the longest-standing Early Music program in North America. It offers early music specialists interested in historical performance practices a rich variety of performing experiences, including 15–20 chamber ensembles, the Cappella Antica, and the Baroque Orchestra. McGill is also the only North American music faculty to produce a fully staged performance of a Baroque opera every year. Recent productions include: Handel’s Alcina, Agrippina, and Imeneo, Lully’s Théâtre, and Purcell’s Dido and Aeneas. Faculty are prominently involved in Montreal’s internationally acclaimed Early Music community. The Schulich School of Music also owns a large collection of early instruments that is available to students.

Graduates perform with Montreal-based early music ensembles, including, among others, Caprice and the Arion Baroque Orchestra, as well as Aradia and Tafelmusik in Toronto, and various ensembles in Europe (e.g., Concerto Palatino, Centre de musique baroque de Versailles).


section 11.11.1.18: Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

The premiere orchestral training program in Canada, this program is for talented instrumental musicians and guitarists wishing to hone their artistry and expressive, interpretative skills in a flexibly designed curriculum rich in performance opportunities. Ensembles emulate professional settings, and include four orchestras—the renowned McGill Symphony Orchestra, McGill Wind Orchestra, the Contemporary Music Ensemble, and the Baroque Orchestra—as well as the smaller Beethoven orchestra and a guitar ensemble. Opportunities for chamber music also abound. String players benefit from a rigorous string quartet training program and trail-blazing pedagogical approaches. Brass and wind musicians also perform a wide range of large ensemble repertoire for their instruments; percussionists perform, tour, and record with the esteemed McGill Percussion Ensemble. Thesis recitals foster individual creativity and diversity by offering a range of options important for orchestral musicians—orchestral excerpt exams run like orchestral auditions, chamber music recitals, and concerto competitions—as well as solo recitals, sound recording, and interdisciplinary projects including collaborations with composers and the Digital Composition Studio, among others.

There is a focus on healthy performance and a broad range of seminars that ground performance practice in the broader humanistic and scientific contexts of music and artistic research-creation. Ensemble conductors are world-class; faculty include the concertmasters and principal players of major Canadian orchestras, including the Montreal Symphony Orchestra; percussion instructors have international profiles and a breadth of experience in world and contemporary repertoires.

Graduates have secured positions in orchestras throughout North and South America, in Europe, and with the Canadian Opera Company, Ensemble Moderne, and others.


section 11.11.1.19: Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis) (45 credits)

Students in this program develop their artistry as collaborative musicians in vocal, instrumental, and opera repetiteur settings. The program is not a chamber music program in that it prepares pianists to assume coaching responsibilities as well as collaborate with other musicians. Candidates need to have excellent technique and interpretative skills, sight-reading abilities, and previous collaborative experience. The program is flexibly defined to allow students to specialize or gain experience in a variety of settings and with a broad cross-section of vocal, instrumental, orchestral, and theatrical repertoire. Concert recitals, choral ensembles, studio lessons with high-quality performers, and opera productions provide professional settings in which students master their craft. Faculty includes internationally renowned collaborative pianists, vocal coaches, conductors, and stage directors.

Graduates pursue careers as collaborative pianists, accompanists, opera repetiteurs, studio teachers, and coaches.

For more information, see [www.mcgill.ca/music/programs/mmus-collaborative-piano](http://www.mcgill.ca/music/programs/mmus-collaborative-piano).

section 11.11.1.20: Master of Music (M.Mus.) Performance: Piano (Thesis) (45 credits)

The M.Mus in Piano develops artistic expression and interpretative skills by immersing the advanced pianist in a vibrant musical environment. The flexibly designed program revolves around an integrated piano seminar involving all studios and includes collaborative opportunities in instrumental, vocal, and contemporary music performance at a high level, piano pedagogy, and performance practice through fortepiano/harpsichord study as options. Recital options include solo and chamber music performance, sound recording, and interdisciplinary projects, including collaborations with strong composition students and the Digital Composition Studio. Dynamic faculty performs internationally and has diverse teaching, coaching, and adjudicating experience in a broad range of solo, chamber, and concerto repertoires.
Graduates often continue their studies at the doctoral level, have been selected for national/international competitions, and pursue careers as collaborative pianists, opera coaches, and independent studio teachers.

For more information, see [www.mcgill.ca/music/programs/mmus-piano](http://www.mcgill.ca/music/programs/mmus-piano).

**section 11.11.1.21: Master of Music (M.Mus.) Performance: Conducting (Thesis) (45 credits)**

Students in this program specialize in instrumental or choral conducting. Enrolment is limited to outstanding candidates having highly developed musical skills in voice, instrumental, or piano performance. The program provides for concentrated podium time, interactions with world-class conductors, score study, and the development of rehearsal technique. A range of seminars provides for the in-depth study of performance practice and the development of analytical skills with leading scholars in musicology and theory. Thesis performance projects involve concert recitals with various Schulich School of Music ensembles.

Some graduates continue on to doctoral studies; others pursue conducting and teaching positions in schools, orchestras, and as opera assistants.

For more information, see [www.mcgill.ca/music/programs/mmus-conducting](http://www.mcgill.ca/music/programs/mmus-conducting).

**section 11.11.1.22: Master of Music (M.Mus.) Performance: Opera and Voice (Thesis) (45 credits)**

The M.Mus in Opera and Voice develops vocal growth and artistic expression by immersing students in a vibrant musical environment that blends performance training with humanities-based scholarship. The flexibly designed program provides the option for students to specialize in opera performance or to develop artistry in a variety of solo and operatic repertoires.

There are three opera productions every year, including one Baroque opera with period instruments. Other performance opportunities include solo recitals, studio concerts, Cappella Antica, oratorios, chamber music ensembles, master classes with leading artists in the field, recording projects, and interdisciplinary collaborations. Performance opportunities emulate professional contexts, including rehearsals in a first-class opera studio and individual repertoire coaching with internationally renowned coaching staff. Voice faculty, stage directors, and set designers are outstanding soloists and creative artists involved with major companies, opera programs, and festivals the world over. McGill singers are selected to participate in various professional young artist programs and have won major national and international auditions including the MET auditions and NATSAA.

Recent graduates perform with orchestras and opera companies in Canada, as well as companies in the United States, Germany, France, Italy, Spain, United Kingdom, and Eastern Europe.


**Graduate Diplomas**

**section 11.11.1.24: Graduate Diploma (Gr. Dip.) Performance (30 credits)**

This one-year graduate performance diploma allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloists, opera singers, collaborative pianists, chamber, jazz and orchestral musicians, or for further graduate studies in performance. Program requirements are flexible, with a range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or an M.Mus.

For more information, see [www.mcgill.ca/music/programs/gdp](http://www.mcgill.ca/music/programs/gdp).

**section 11.11.1.25: Graduate Artist Diploma (Gr. Art. Dip.) Performance (30 credits)**

The Graduate Artist Diploma is the uppermost diploma offered at the Schulich School of Music. It is tailored for artist performers wishing to achieve the highest level of artistry in their craft through intensive coaching, practicing, and performance projects. Candidates are preparing for stage careers as soloists and orchestral musicians, opera singers, collaborative pianists, and chamber ensembles. Program requirements are flexible, with a range of performance project options relevant to the diverse opportunities of the modern artist (chamber, recording, creative collaborations, etc.). The program is 1-year in length, and admission is by audition. Students who hold a master’s or doctoral degree can be admitted directly into the diploma. Others can be admitted following
**GRADUATE AND POSTDOCTORAL STUDIES**

**completeness of the Graduate Diploma in Performance (GDP) program. Admissibility to the combined Graduate Diploma in Performance and Graduate Artist Diploma can be assessed in a single audition.**

For more information, see [www.mcgill.ca/music/admissions/graduate/doctoral](http://www.mcgill.ca/music/admissions/graduate/doctoral).

**Doctoral Programs**

**section 11.11.1.26: Doctor of Music (D.Mus.) Music: Composition**

Students create extended original works of art that push the boundaries of the discipline. Composers refine their musical language and artistic voice through private instruction with some of Canada’s most accomplished composers, all of whom have distinguished themselves through high-profile commissions, performances, recordings, and awards. The faculty members have diverse interests that ensure composers will find a suitable mentor.

The resources of the Digital Composition Studios also offer composers an opportunity to work with a wide range of cutting-edge approaches to music technology. Students benefit from international new music festivals and conferences co-sponsored by the Schulich School of Music, a visiting artist series, and high-quality performances, readings, and recordings of their works by some of the school’s most esteemed ensembles and advanced performers. Commissioning opportunities exist through an established composer-in-residence program and through student-initiated, performer-composer and interdisciplinary collaborations.

Graduates have won prestigious awards (e.g., Jules Leger Prize, SOCAN competition) and have successful careers in university teaching, (freelance) composition, film, literature, and conducting.


**section 11.11.1.27: Doctor of Music (D.Mus.) Music: Performance Studies**

This program is for the inspired artist/scholar interested in expanding horizons. Students perform at a professional or near-professional level, are curious, and have research interests linked to their artistic practice. A broad range of seminars explore performance practice in the broader humanistic and scientific contexts of music, while encouraging the creative thinking and the fertile exchange of ideas that promote new ways of engaging with music. Two performance (recital/recording) projects extend repertoire interests. Comprehensive examinations develop credentials in three areas of expertise in preparation for teaching careers, while articulating the background and critical issues surrounding students' thesis work. The latter consists of a lecture/recital and a paper (including a recording of the recital). The artistic research may assume a variety of forms from the study of scores, works, and contextual influences through the analysis of performance itself and the creation of new works.

Students benefit from exceptional mentoring by internationally renowned coaches, the research expertise of faculty from the Department of Music Research, master classes, opportunities to collaborate with strong composition students, and the rich performance life of the Schulich School of Music and Montreal. Students win major fellowships (SSHRC, Fulbright, FRQSC, Canada Council).

Graduates have won major national and international competitions and pursue teaching and performing careers in a wide variety of contexts globally.


**section 11.11.1.28: Doctor of Philosophy (Ph.D.) Music (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)**

The thesis for the Ph.D. in composition involves the creation of an original large-scale work and research that increases our understanding of music and musical processes. Students in music education investigate a broad spectrum of critical issues through a variety of quantitative and qualitative methodologies. The Musicology area adopts a humanistic orientation that bridges traditional methodologies with new critical approaches. Research in Music Technology and Sound Recording can lead to patents, among other outcomes and benefits from unlimited technological resources. Theorists engage with all repertoires and analytical methods.

For more information, see [www.mcgill.ca/music/admissions/graduate/doctoral](http://www.mcgill.ca/music/admissions/graduate/doctoral).

**section 11.11.1.29: Doctor of Philosophy (Ph.D.) Music: Gender and Women's Studies**

This program is open to doctoral students who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women’s studies. Music requirements are augmented by participation in a Research Methods course and a Graduate Feminism section that engages with a diverse array of critical and empirical perspectives. The program draws on the resources of the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University. Supporting music faculty has interests in Opera, film studies, aesthetics, theory of performance, and popular/jazz studies.

For more information, see [www.mcgill.ca/music/admissions/graduate/doctoral](http://www.mcgill.ca/music/admissions/graduate/doctoral).

11.11.1.3 Schulich School of Music Admission Requirements and Application Procedures

11.11.1.3.1 Admission Requirements

**Master’s Degrees**

Applicants for the master's degree must hold a bachelor's degree or its equivalent (as determined by McGill University), typically with a Major in music, including considerable work done in the area of specialization.
Applicants found to be deficient in their background preparation may be required to take certain additional undergraduate courses.

All applicants (except those for Performance, Musicology, and Sound Recording) will be required to take placement examinations.

All M.Mus. performance applicants are required to pass an audition. Applicants can attend a live audition or submit recorded material.

Conducting, female voice, and jazz applicants who apply for the live audition option must submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition. For more information, see www.mcgill.ca/music/programs.

Specific admission and document requirements for each program are outlined at www.mcgill.ca/music/admissions/graduate/masters.

**Graduate Diploma in Performance**

Applicants for the Graduate Diploma in Performance must hold a B.Mus. or a B.A. degree with a Major or an Honours in music, a licentiate, or an M.Mus., including considerable work in the area of specialization. All diploma applicants are required to pass an audition. Applicants can attend a live audition or submit recorded material. Female voice and jazz applicants who apply for the live audition option will be required to submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition; see www.mcgill.ca/music/admissions/graduate/diploma.

Specific admission and document requirements for each program are outlined at www.mcgill.ca/music/admissions/graduate.

**D.Mus. Degree**

Applicants for the D.Mus. degree in Composition must hold an M.Mus. degree in Composition, or its equivalent, and must submit scores and/or recordings of their compositions at the time of application.

Applicants for the D.Mus. degree in Performance Studies must hold an M.Mus. degree in Performance, or its equivalent, and are required to submit screening material, samples of written work, and a statement of proposed artistic research interests by the specified application deadlines. Following a review of these materials, selected applicants will be invited to attend a live audition.

**Ph.D. Degree**

Applicants for the Ph.D. degree in Composition must hold an M.Mus. in Composition or equivalent and must submit scores and/or recordings of their compositions at the time of application, and a written description (no more than two pages) of the research path(s) they wish to follow.

Applicants for the Ph.D. degree in Music Education, Music Technology, Musicology, Sound Recording, Music – Gender and Women's Studies, or Theory must hold a master's or a bachelor's degree equivalent to a McGill degree in Music Technology, Music Education, Musicology, Theory, or Sound Recording. Applicants with a bachelor's degree will normally be admitted to the M.A. program for the first year and may apply for admittance to the Ph.D. program after the completion of one full year of graduate coursework. Qualified applicants who have already completed an appropriate master's degree will be admitted to the second year of the Ph.D. program.

**11.11.13.2 Application Procedures**

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures. Please also consult for detailed application procedures and document requirements.

**11.11.13.21 Additional Requirements**

The items and clarifications below are additional requirements set by this department:

- $66.17 audition fee for Performance degrees

**11.11.13.3 Application Dates and Deadlines**

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Schulich School of Music and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

11.11.1.4 Schulich School of Music Faculty

Dean, Schulich School of Music
Brenda Ravenscroft

Associate Dean, Graduate Studies
Lena Weman

Graduate Program Director
TBA

Chairs
Stéphane Lemelin – Department of Performance
TBA – Department of Music Research

Associate Dean (Research and Administration)
Lloyd Whitesell

Associate Dean (Academic and Student Affairs)
John Mac Master

Professors
David Brackett; B.A.(Calif.-Santa Cruz), M.M.(NEC), D.M.A.(Cornell)
William Caplin; B.M.(USC), M.A., Ph.D.(Chic.) (James McGill Professor)
Brian Cherney; B.Mus., M.Mus., Ph.D.(Tor.)
Kevin Dean; B.M.E.(Iowa), M.Mus.(Miami)
Hans-Ola Ericsson; Mus. Dir. Exam.(Royal Swedish Academy of Music), Graduate, Hochschule für Musik(Freiburg)
Kyoko Hashimoto; B.Mus.(Tokyo), Professional Studies(Juilliard)
Steven Huebner; B.A., B.Mus., L.Mus.(McG.), M.F.A., Ph.D.(Princ.) (James McGill Professor)
Stéphane Lemelin; B.Mus., M.Mus.(Peabody Inst.), D.M.A.(Yale)
Stephen McAdams; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris) (Canada Research Chair)
Brenda Ravenscroft; B.Mus.(Cape Town), M.Mus.(King's, Lond.), Ph.D.(Br. Col.)
John Rea; B.Mus.(Wayne), M.Mus.(Tor.), M.F.A., Ph.D.(Princ.)
Peter Schubert; B.A., M.A., Ph.D.(Col.)
Marcelo Wanderley; B.Eng.(Federal Univ. of Paraná), M.Eng.(Federal Univ. of Santa Catarina), Ph.D.(Paris VI & IRCAM) (William Dawson Scholar)
Wieslaw Woszczyk; M.A., Ph.D.(F. Chopin Academy of Music, Warsaw) (James McGill Professor)

Associate Professors
Stefano Algieri; B.Mus., M.Mus.(Manhattan School of Music)
Lisa Barg; B.A.(Antioch), M.A., Ph.D.(SUNY Stony Brook)
Theodore Baskin; B.Mus.(Curtis), M.Mus.(Auck.), Principal Oboe, Montreal Symphony
Tom Beghin; Diplôme Supérieure(Louvain), M.A., D.M.A.(Cornell)
Nicole Biamonte; B.F.A.(SUNY Purchase), Ph.D., M.Phil(Yale)
Rémi Bolduc
Denys Bouliane; B.Mus., M.Mus.(Laval), Graduate, Hochschule für Musik(Hamburg)
Alain Cazes; Premier Prix(Cons. de Montréal)
Carolyn Christie; B.Mus.(McG.)
**Associate Professors**

Julie Cumming; B.A.(Col.), M.A., Ph.D.(Calif., Berk.)

Martha de Francisco; Diploma(Musikhochschule, Detmold)

Philippe Depalle; B.Sc.(Paris XI and ENS Cachan), D.E.A.(Le Mans and ENS Cachan), Ph.D.(Le Mans and IRCAM)

Sean Ferguson; B.Mus.(Alta.), M.Mus., D.Mus.(McG.)

Mark Fewer; B.Mus.(Tor.) (*William Dawson Scholar*)

Ichiro Fujinaga; B.Mus., B.Sc.(Alta.), M.A., Ph.D.(McG.)

Matt Haimovitz; B.A.(Harv.)

Patrick Hansen; B.Mus.(Simpson), M.Mus.(Missouri)

Chris Paul Harman

Robert Hasegawa; B.A.(Bard Coll.), M.A.(Calif.), Ph.D.(Harv.)

Alexis Hauser; Diplom(Konservatorium der Stadt, Wien)

John Hollenbeck; B.Mus., M.Mus.(Eastman Sch. of Music)


Timothy Hutchins; Dip. L.G.S.M.(Guildhall), B.A.Hons.Mus.(Dal.), Principal Flute, Montreal Symphony

Richard King; B.Mus.(Dal.), M.Mus.(McG.)

Hank Knox; B.Mus., M.Mus.(McG.)

Roe-Min Kok; B.Mus.(Texas), M.A.(Duke), Ph.D.(Harv.)

Sara Laimon; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY Stony Brook)

Jacqueline Leclair; B.Mus.(Eastman Sch. of Music), M.Mus., D.M.A.(SUNY Stony Brook)

Philippe Leroux; Premier Prix(Conservatoire National Supérieur de Musique et de Danse de Paris)

Jean Lesage; Concours, Diplôme d'études supérieures(Cons. de Montréal)

Fabrice Marandola; Premier Prix(Cons. de Paris), M.Mus., Ph.D.(Sorbonne)

George Massenburg

Michael McMahon; B.Mus.(McG.), Graduate, Hochschule für Musik(Vienna)

Douglas McNabney; B.Mus.(Tor.), M.M.(W. Ont.), D.Mus.(Montr.)

Marina Mdivani; Post-graduate Dip.(Moscow Cons.)

Christoph Neidhöfer; Graduate, Hochschule für Musik(Basel), Ph.D.(Harv.)

Jean-Michel Pilc

Ilya Poletaev; B.Mus.(Tor.), M.Mus., M.A., D.M.A.(Yale)

André Roy; B.Mus.(Curtis)

Gary Scavone; B.Sc., B.A.(Syrac.), M.Sc., Ph.D.(Stan.)

Richard Stoelzel; B.Mus.(S. Miss.), M.Mus.(Conn.)

Axel Strauss; Dipl.(Musikhochschule Rostock), Prof. Studies Cert.(Juilliard)

Joe Sullivan; B.A.(Ott.), M.M.(New England Cons.)

André White; B.A.(Cdia), M.Mus.(McG.)

Lloyd Whitesell; B.A.(Minn.), M.A., Ph.D.(SUNY Stony Brook)

Jonathan Wild; B.Mus., M.A.(McG.), Ph.D.(Harv.)

**Assistant Professors**

Simon Aldrich; B.Mus., L.Mus.(McG.)

Guillaume Bourgogne; Premier Prix(CNSMDP)

James Box; B.M.(Southern Methodist U.), M.M.(Cleve. Inst. of Music), Principal Trombone, Montreal Symphony
Assistant Professors

Isabelle Cossette; Premier Prix(Cons. de Québec), M.Mus.(McG.), D.Mus.(Montr.)
Alain Desgagné; Premier Prix(Cons. de Québec), M.Mus.(N'western)
Russell DeVuyst; B.Mus.Ed.(Boston Cons.), M.M.(New England Cons.)
Elizabeth Dolin; B.Mus.(Tor.), Artist Dip.(Ind.)
Jean Gaudreau; LL.L.(Montr.), Graduate(Cons. de Québec), Montreal Symphony
Stephen Hargreaves; B.Mus.(Ind.)
Edward Klorman; B.Mus.(Juilliard), M.A., Ph.D.(CUNY)
Joanne Kolomyjec; B.Mus.(Tor.)
Dominique Labelle; L.Mus.(McG.), Artist Dip.(Boston)
Stéphane Lévesque; Premier Prix(Cons. de Montréal), M.Mus.(Yale), Principal Bassoon, Montreal Symphony
Lisa Lorenzino; B.Mus.(Tor.), B.Ed.(Sask.), M.A.(McG.), Ph.D.(Alta.)
John Mac Master; L.Mus.(McG.)
Brian Manker; B.Mus., M.Mus.(New England Cons.)
Violaine Melançon; Premier Prix(CMQQ/Curtis Inst.)
Annamaria Popescu; A. Dip.(Acad. of Vocal Arts)
Richard Roberts; B.Mus.(Ind.), Concertmaster, Montreal Symphony
Brian Robinson; B.Mus.(Tor.), Montreal Symphony
Jennifer Swartz; Dip.(Curtis), Principal Harp, Montreal Symphony
Jean-Sébastien Vallée; B.Mus.(Laval), Grad.Dip.(Sher.), M.Mus.(Calif.-Santa Cruz), D.M.A.(Ill.-Urbana-Champaign)
Andrew Wan; B.Mus.(Juilliard), Concertmaster, Montreal Symphony
Lena Weman; M.A.(Uppsala), Ph.D.(Luleå)
Ali Yazdanfar; B.A.(Johns Hop.), Principal Bass, Montreal Symphony

Adjunct Professors

Durand Begault; B.A.(Calif.-Santa Cruz), M.F.A.(Mills Coll., Calif.), Ph.D.(Calif.-San Diego)
Jonas Braasch; Dipl. Physics (Dortmund), Doct-Eng, Ph.D.(Ruhr-Univ. Bochum)
Rachelle Chiasson-Taylor; M.Mus., D.Mus., Ph.D.(McG.)
Steven Dann; B.Mus.(Tor.)
Steven Epstein; B.S.(Hofstra)
Jean Piché
Axel Mulder; Drs.(Rijks Universiteit Groningen), Ph.D.(S. Fraser)
Marc-Pierre Verge; B.A., M.Sc.(Laval), Ph.D.(Eiden.)
Jérémie Voix; M.Sc.A.(Sher.), Ph.D.(ÉTS)

11.11.1.5 Master of Music (M.Mus.) Music: Composition (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)

The thesis is a composition, accompanied by an analytical essay of approximately 20-30 pages.

MUGS 684 (6) Master's Thesis Research 2
MUGS 685 (9) Master's Thesis Research 3
MUGS 686 (12) Master's Thesis Research 4
Required Courses (6 credits)

MUCA 622D1  (3)  Composition Tutorial
MUCA 622D2  (3)  Composition Tutorial

Complementary Courses (6 credits)
6 credits selected from the following courses:

MUCA 631  (3)  Seminar in Composition 1
MUCA 632  (3)  Seminar in Composition 2
MUCA 633  (3)  Seminar in Composition 3
MUCA 634  (3)  Seminar in Composition 4
MUCA 635  (3)  Seminar in Composition 5
MUCA 636  (3)  Seminar in Composition 6

Elective Courses (6 credits)
6 credits of graduate seminars, at the 500, 600, or 700 level, approved by the Department.

11.11.1.6 Master of Arts (M.A.) Music: Music Education (Thesis) (45 credits)
Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)
The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Education.

MUCA 683  (3)  Master's Thesis Research 1
MUCA 684  (6)  Master's Thesis Research 2
MUCA 685  (9)  Master's Thesis Research 3
MUCA 686  (12)  Master's Thesis Research 4

Complementary Courses (15 credits)
15 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department. Normally 9 credits will be seminars in Music Education selected from the following:

MUCA 610  (3)  Seminar - Music Education 1
MUCA 611  (3)  Seminar - Music Education 2
MUCA 612  (3)  Seminar - Music Education 3
MUCA 613  (3)  Seminar - Music Education 4

11.11.1.7 Master of Arts (M.A.) Music: Music Technology (Thesis) (45 credits)
Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)
The candidate will undertake supervised research leading to a thesis that will utilize or investigate an aspect of musical science and technology.

MUCA 683  (3)  Master's Thesis Research 1
MUCA 684  (6)  Master's Thesis Research 2
MUCA 685  (9)  Master's Thesis Research 3
Complementary Courses (15 credits)
15 credits of graduate seminars at the 500, 600, or 700 level approved by the Department, 9 credits of which must be Music Technology seminars with the prefix MUMT.

11.11.1.8 Master of Arts (M.A.) Music: Musicology (Thesis) (45 credits)
Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)
The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Musicology.

Required Course (3 credits)
MUHL 529 (3) Proseminar in Musicology

Complementary Courses (12 credits)
12 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department. Normally 6 credits will be in Seminars in Musicology selected from the following:

11.11.1.9 Master of Arts (M.A.) Music Musicology (Thesis): Gender and Women’s Studies (45 credits)
Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)
The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Musicology on a topic centrally related to issues of Gender and/or Women’s Studies.

Required Courses (6 credits)
MUHL 529 (3) Proseminar in Musicology
WMST 601 (3) Feminist Theories and Methods
Complementary Courses (12 credits)

9 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department. Normally, 6 credits will be seminars in Musicology selected from the following:

- MUHL 680 (3) Seminar in Musicology 1
- MUHL 681 (3) Seminar in Musicology 2
- MUHL 682 (3) Seminar in Musicology 3
- MUHL 683 (3) Seminar in Musicology 4
- MUHL 684 (3) Seminar in Musicology 5
- MUHL 685 (3) Seminar in Musicology 6
- MUHL 692 (3) Seminar in Music Literature 1

3 credits of:

- WMST 602 (3) Feminist Research Symposium

Or 3 credits of a graduate seminar at the 500, 600, or 700 level, on gender/women's issues, may be selected from within or outside of the Department. The selection must be approved by the Department.

11.11.1.10 Master of Music (M.Mus.) Sound Recording (Non-Thesis) (60 credits)

Program Prerequisites (27 credits)

Required Courses (21 credits)

- MUCO 260 (3) Instruments of the Orchestra
- MUMT 250 (3) Music Perception and Cognition
- MUSR 232 (3) Introduction to Electronics
- MUSR 300D1 (3) Introduction to Music Recording
- MUSR 300D2 (3) Introduction to Music Recording
- MUSR 339 (3) Introduction to Electroacoustics
- PHYS 224 (3) Physics of Music

Complementary Music Technology Courses (6 credits)

3 credits from:

- MUMT 202 (3) Fundamentals of New Media
- MUMT 203 (3) Introduction to Digital Audio

3 credits from:

- MUMT 302 (3) New Media Production 1
- MUMT 306 (3) Music and Audio Computing 1

1) 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.

2) MUMT 202 and MUMT 203 cover overlapping material, but MUMT 203 requires a much stronger background in Mathematics. If in doubt, please consult the instructor.

3) MUMT 306 (Music and Audio Computing 1) can be taken by adept programmers in place of MUMT 302 (New Media Production 1).

Required Courses (51 credits)
Electives Courses (9 credits)
Three 3-credit graduate course electives, approved by the Department.

11.11.11 Master of Arts (M.A.) Music: Theory (Thesis) (45 credits)
Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)
The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Theory.

MUGS 683 (3) Master's Thesis Research 1
MUGS 684 (6) Master's Thesis Research 2
MUGS 685 (9) Master's Thesis Research 3
MUGS 686 (12) Master's Thesis Research 4

Complementary Courses (15 credits)
12 credits at the 500, 600, or 700 level, approved by the Department. Normally, 9 credits will be seminars in Music Theory selected from the following:

MUTH 652 (3) Seminar in Music Theory 1
MUTH 653 (3) Seminar in Music Theory 2
MUTH 654 (3) Seminar in Music Theory 3
MUTH 655 (3) Seminar in Music Theory 4
MUTH 656 (3) Seminar in Music Theory 5
MUTH 657 (3) Seminar in Music Theory 6

3 credits selected from the following:
MUTH 658 (3) History of Music Theory 1
MUTH 659 (3) History of Music Theory 2
11.11.1.12 Master of Arts (M.A.) Music Theory (Thesis): Gender and Women’s Studies (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)
The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Theory on a topic centrally related to issues of Gender and/or Women’s Studies.

MUGS 684 (6) Master’s Thesis Research 2
MUGS 685 (9) Master’s Thesis Research 3
MUGS 686 (12) Master’s Thesis Research 4

Required Course (3 credits)
WMST 601 (3) Feminist Theories and Methods

Complementary Courses (15 credits)
9 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department, selected from the following:

MUTH 652 (3) Seminar in Music Theory 1
MUTH 653 (3) Seminar in Music Theory 2
MUTH 654 (3) Seminar in Music Theory 3
MUTH 655 (3) Seminar in Music Theory 4
MUTH 656 (3) Seminar in Music Theory 5
MUTH 657 (3) Seminar in Music Theory 6

3 credits selected from the following:
MUTH 658 (3) History of Music Theory 1
MUTH 659 (3) History of Music Theory 2

3 credits of:
WMST 602 (3) Feminist Research Symposium

or 3 credits of graduate seminar at the 500, 600, or 700 level, on gender/women’s issues, may be selected from within or outside the Department. The selection must be approved by the Department.

11.11.1.13 Master of Arts (M.A.) Music: Music Education (Non-Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Research Project (24 credits)
MUGS 614 (3) Reading Course 1
MUGS 615 (3) Reading Course 2
MUGS 635 (9) Research Paper 1
MUGS 636 (9) Research Paper 2

Required Courses (21 credits)
Seven 3-credit courses at the 500, 600, or 700 level approved by the Music Education Area, four of which must be in the Music Education Area. With the approval of the Music Education Area, two of the seven 3-credit courses may be taken in the Faculty of Education.

**11.11.1.14 Master of Arts (M.A.) Music: Musicology (Non-Thesis) (45 credits)**

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

**Research Project (24 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 614</td>
<td>(3)</td>
<td>Reading Course 1</td>
</tr>
<tr>
<td>MUGS 615</td>
<td>(3)</td>
<td>Reading Course 2</td>
</tr>
<tr>
<td>MUGS 635</td>
<td>(9)</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>MUGS 636</td>
<td>(9)</td>
<td>Research Paper 2</td>
</tr>
</tbody>
</table>

**Required Courses (21 credits)**

Seven 3-credit courses at the 500, 600, or 700 level approved by the Musicology Area, four of which must be in the Musicology Area.

One of the courses must be:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUHL 529</td>
<td>(3)</td>
<td>Proseminar in Musicology</td>
</tr>
</tbody>
</table>

**11.11.1.15 Master of Arts (M.A.) Music: Theory (Non-Thesis) (45 credits)**

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

**Research Project (24 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 614</td>
<td>(3)</td>
<td>Reading Course 1</td>
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<td>MUGS 615</td>
<td>(3)</td>
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<td>MUGS 635</td>
<td>(9)</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>MUGS 636</td>
<td>(9)</td>
<td>Research Paper 2</td>
</tr>
</tbody>
</table>

**Required Courses (21 credits)**

Seven 3-credit graduate courses at the 500, 600, or 700 level approved by the Music Theory Area, four of which must be in Music Theory.

One of the courses must be selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTH 658</td>
<td>(3)</td>
<td>History of Music Theory 1</td>
</tr>
<tr>
<td>MUTH 659</td>
<td>(3)</td>
<td>History of Music Theory 2</td>
</tr>
</tbody>
</table>

**11.11.1.16 Master of Music (M.Mus.) Performance: Jazz Performance (Thesis) (45 credits)**

Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUHL 393</td>
<td>(3)</td>
<td>History of Jazz</td>
</tr>
<tr>
<td>MUJZ 440D1</td>
<td>(2)</td>
<td>Advanced Jazz Composition</td>
</tr>
<tr>
<td>MUJZ 440D2</td>
<td>(2)</td>
<td>Advanced Jazz Composition</td>
</tr>
<tr>
<td>MUJZ 461D1</td>
<td>(2)</td>
<td>Advanced Jazz Arranging</td>
</tr>
<tr>
<td>MUJZ 461D2</td>
<td>(2)</td>
<td>Advanced Jazz Arranging</td>
</tr>
<tr>
<td>MUJZ 493</td>
<td>(3)</td>
<td>Jazz Performance Practice</td>
</tr>
</tbody>
</table>
**Required Courses (12 credits)**

- MUIN 626 (3) Jazz Performance/Composition Tutorial 1
- MUIN 627 (3) Jazz Performance/Composition Tutorial 2
- MUIN 628 (3) Jazz Performance/Composition Tutorial 3
- MUJZ 601 (3) Jazz Pedagogy

**Complementary Courses (33 credits)**

33 credits from one of the following streams:

**Stream A - Jazz Performance**

3 credits from:
- MUPG 695 (3) Graduate Jazz Improvisation Seminar

22 credits from:
- MUJZ 640 (2) Jazz Composition & Arranging 1
- MUJZ 641 (2) Jazz Composition & Arranging 2
- MUPG 651 (9) Performance/Composition Recital Project
- MUPG 659 (9) Performance in Recording Media

3 credits of graduate seminar courses at the 600-level, approved by the Department.

5 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles.)

**Stream B - Jazz Composition and Arranging**

22 credits from:
- MUJZ 640 (2) Jazz Composition & Arranging 1
- MUJZ 641 (2) Jazz Composition & Arranging 2
- MUPG 652 (9) Jazz Ensemble Recital Project
- MUPG 659 (9) Performance in Recording Media

6 credits of graduate seminar courses, at the 600-level, approved by the Department.

5 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles.)

**Stream C - Jazz Orchestra**

4 credits from:
- MUJZ 640 (2) Jazz Composition & Arranging 1
- MUJZ 641 (2) Jazz Composition & Arranging 2
- MUJZ 644 (2) Jazz Repertoire Project 1
- MUJZ 645 (2) Jazz Repertoire Project 2

18 credits from:
3 credits of graduate seminars at the 600 level, approved by the Department.

8 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572 can be substituted for 1 credit of Jazz ensemble.

11.11.11 Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

Voice, Baroque Flute, Recorder, Baroque Oboe, Baroque Bassoon, Baroque Violin, Baroque Viola, Baroque Cello, Early Music Clarinet, Viola da Gamba, Organ, Harpsichord, Lute, Early Brass, Fortepiano

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUPD 560 (1) Introduction 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

Harpischord students:
MUPG 272D1 (2) Continuo
MUPG 272D2 (2) Continuo
MUPG 372D1 (1) Continuo
MUPG 372D2 (1) Continuo

Organ/Lute students:
MUPG 272D1 (2) Continuo
MUPG 272D2 (2) Continuo

Voice students:
MUPG 210 (2) Italian Diction
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 211</td>
<td>2</td>
<td>French Diction</td>
</tr>
<tr>
<td>MUPG 212</td>
<td>2</td>
<td>English Diction</td>
</tr>
<tr>
<td>MUPG 213</td>
<td>2</td>
<td>German Diction</td>
</tr>
</tbody>
</table>

**Thesis Performance (27 credits)**

18 credits:
- MUIN 620  (3) Performance Tutorial 1
- MUIN 621  (3) Performance Tutorial 2
- MUIN 622** (3) Performance Tutorial 3
- MUIN 622D1** (1.5) Performance Tutorial 3
- MUIN 622D2** (1.5) Performance Tutorial 3
- MUPG 600*  (9) Recital Project 1

* Solo Recital only

** Student may take either MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from:
- MUPG 601  (9) Recital Project 2
- MUPG 602  (6) Recital Project 3
- MUPG 603  (3) Recital Project 4
- MUPG 604  (6) Chamber Music Recital
- MUPG 605  (3) Recording Project
- MUPG 606** (3) Interdisciplinary Project 1
- MUPG 607** (6) Interdisciplinary Project 2
- MUPG 614*  (3) Quick Study

* Voice Only

** Students may take either MUPG 606 or MUPG 607

**Required Course**

- MUGS 605  (0) Graduate Performance Colloquium

**Complementary Seminars (9 credits)**

3 credits from the following:
- MUPG 590*  (3) Vocal Styles and Conventions
- MUPP 690  (3) Performance Practice Seminar 1
- MUPP 691  (3) Performance Practice Seminar 2
- MUPP 692  (3) Performance Practice Seminar 3
- MUPP 693  (3) Performance Practice Seminar 4
- MUPP 694  (3) Performance Practice Seminar 5
- MUPP 695  (3) Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MU CO, MUG S, MUG T, MU HL, MUM T, MUP P, or MUTH.
3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUHL 591D1</td>
<td>1.5</td>
<td>Paleography</td>
</tr>
<tr>
<td>MUHL 591D2</td>
<td>1.5</td>
<td>Paleography</td>
</tr>
<tr>
<td>MUPG 575D1**</td>
<td>1.5</td>
<td>Liturgical Organ Playing</td>
</tr>
<tr>
<td>MUPG 575D2**</td>
<td>1.5</td>
<td>Liturgical Organ Playing</td>
</tr>
<tr>
<td>MUPG 590*</td>
<td>3</td>
<td>Vocal Styles and Conventions</td>
</tr>
<tr>
<td>MUPG 691</td>
<td>3</td>
<td>Vocal Ornamentation</td>
</tr>
<tr>
<td>MUTH 602</td>
<td>3</td>
<td>Keyboard Modal Counterpoint</td>
</tr>
</tbody>
</table>

or one graduate 3-credit seminar approved by the Department.

* If not already taken

** May be repeated once

**Complementary Performance (9 credits)**

**Instruments:**

3 terms of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 580</td>
<td>1</td>
<td>Early Music Ensemble</td>
</tr>
</tbody>
</table>

6 credits from (may be taken more than once):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 569</td>
<td>1</td>
<td>Tabla Ensemble</td>
</tr>
<tr>
<td>MUEN 572</td>
<td>2</td>
<td>Cappella Antica</td>
</tr>
<tr>
<td>MUEN 573</td>
<td>2</td>
<td>Baroque Orchestra</td>
</tr>
</tbody>
</table>

OR

**Voice:**

2 credits of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 580</td>
<td>1</td>
<td>Early Music Ensemble</td>
</tr>
</tbody>
</table>

3 credits:

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUIN 610</td>
<td>1</td>
<td>Vocal Coaching 1</td>
</tr>
<tr>
<td>MUIN 611</td>
<td>1</td>
<td>Vocal Coaching 2</td>
</tr>
<tr>
<td>MUIN 612</td>
<td>1</td>
<td>Vocal Coaching 3</td>
</tr>
</tbody>
</table>

4 credits from (may be taken more than once):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 569</td>
<td>1</td>
<td>Tabla Ensemble</td>
</tr>
<tr>
<td>MUEN 572</td>
<td>2</td>
<td>Cappella Antica</td>
</tr>
<tr>
<td>MUEN 579</td>
<td>1</td>
<td>Song Interpretation 2</td>
</tr>
<tr>
<td>MUEN 580</td>
<td>1</td>
<td>Early Music Ensemble</td>
</tr>
<tr>
<td>MUEN 696</td>
<td>2</td>
<td>Opera Theatre</td>
</tr>
</tbody>
</table>
11.11.1.18 Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisite may be assigned as an additional required course on the basis of transcript review:

MUPD 560 (1) Introduction to Research Methods in Music

**Thesis Performance (27 credits)**

18 credits:

MUIN 620 (3) Performance Tutorial 1
MUIN 621 (3) Performance Tutorial 2
MUIN 622* (3) Performance Tutorial 3
MUIN 622D1* (1.5) Performance Tutorial 3
MUIN 622D2* (1.5) Performance Tutorial 3
MUPG 600 (9) Recital Project 1

* Students may take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from the following:

MUPG 601 (9) Recital Project 2
MUPG 602 (6) Recital Project 3
MUPG 603 (3) Recital Project 4
MUPG 604 (6) Chamber Music Recital
MUPG 605 (3) Recording Project
MUPG 606* (3) Interdisciplinary Project 1
MUPG 607* (6) Interdisciplinary Project 2
MUPG 608** (3) Orchestral Repertoire Examination 1
MUPG 609** (6) Orchestral Repertoire Examination 2
MUPG 610** (9) Orchestral Repertoire Examination 3

* May take MUPG 606 or MUPG 607.
** May take MUPG 608 or MUPG 609 or MUPG 610.

**Required Course**

MUGS 605 (0) Graduate Performance Colloquium

**Complementary Seminars (9 credits)**

One of the following:

MUPP 690 (3) Performance Practice Seminar 1
MUPP 691 (3) Performance Practice Seminar 2
MUPP 692 (3) Performance Practice Seminar 3
MUPP 693 (3) Performance Practice Seminar 4
MUPP 694 (3) Performance Practice Seminar 5
MUPP 695 (3) Performance Practice Seminar 6
One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

**Complementary Performance (9 credits)**

**Orchestral Instruments:**
6 credits from the following (may be taken more than once):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 573</td>
<td>(2)</td>
<td>Baroque Orchestra</td>
</tr>
<tr>
<td>MUEN 590</td>
<td>(2)</td>
<td>McGill Wind Orchestra</td>
</tr>
<tr>
<td>MUEN 594</td>
<td>(2)</td>
<td>Contemporary Music Ensemble</td>
</tr>
<tr>
<td>MUEN 597</td>
<td>(2)</td>
<td>McGill Symphony Orchestra</td>
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</tbody>
</table>

**Strings:**
Two terms of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 560**</td>
<td>(1)</td>
<td>Chamber Music Ensemble</td>
</tr>
</tbody>
</table>

1 credit of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>MUEN 540</td>
<td>(.5)</td>
<td>Chamber Music Project 1</td>
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<tr>
<td>MUEN 541</td>
<td>(.5)</td>
<td>Chamber Music Project 2</td>
</tr>
<tr>
<td>MUEN 560**</td>
<td>(1)</td>
<td>Chamber Music Ensemble</td>
</tr>
<tr>
<td>MUEN 561**</td>
<td>(1)</td>
<td>2nd Chamber Music Ensemble</td>
</tr>
<tr>
<td>MUEN 568**</td>
<td>(1)</td>
<td>Multiple Ensemble 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 569*</td>
<td>(1)</td>
<td>Tabla Ensemble</td>
</tr>
<tr>
<td>MUEN 599</td>
<td>(1)</td>
<td>Jazz Studio Orchestra</td>
</tr>
<tr>
<td>MUPG 571</td>
<td>(1)</td>
<td>Free Improvisation 1</td>
</tr>
<tr>
<td>MUPG 572D1</td>
<td>(.5)</td>
<td>Free Improvisation 2</td>
</tr>
<tr>
<td>MUPG 572D2</td>
<td>(.5)</td>
<td>Free Improvisation 2</td>
</tr>
</tbody>
</table>

**Winds/Brass:**
2 credits from the following (may be taken more than once):

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 589</td>
<td>(1)</td>
<td>Woodwind Ensembles</td>
</tr>
<tr>
<td>MUEN 591</td>
<td>(1)</td>
<td>Brass Consort</td>
</tr>
</tbody>
</table>

1 credit from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 540</td>
<td>(.5)</td>
<td>Chamber Music Project 1</td>
</tr>
<tr>
<td>MUEN 541</td>
<td>(.5)</td>
<td>Chamber Music Project 2</td>
</tr>
<tr>
<td>MUEN 560**</td>
<td>(1)</td>
<td>Chamber Music Ensemble</td>
</tr>
<tr>
<td>MUEN 568**</td>
<td>(1)</td>
<td>Multiple Ensemble 1</td>
</tr>
<tr>
<td>MUEN 569</td>
<td>(1)</td>
<td>Tabla Ensemble</td>
</tr>
<tr>
<td>MUEN 589</td>
<td>(1)</td>
<td>Woodwind Ensembles</td>
</tr>
<tr>
<td>MUEN 591</td>
<td>(1)</td>
<td>Brass Consort</td>
</tr>
</tbody>
</table>
MUEN 599 (1)  Jazz Studio Orchestra
MUPG 571 (1)  Free Improvisation 1
MUPG 572D1 (.5)  Free Improvisation 2
MUPG 572D2 (.5)  Free Improvisation 2

Percussion:
3 credits from (may be taken more than once unless otherwise indicated):

MUEN 540 (.5)  Chamber Music Project 1
MUEN 541 (.5)  Chamber Music Project 2
MUEN 560** (1)  Chamber Music Ensemble
MUEN 568** (1)  Multiple Ensemble 1
MUEN 569** (1)  Tabla Ensemble
MUEN 598 (1)  Percussion Ensembles
MUPG 571 (1)  Free Improvisation 1
MUPG 572D1 (.5)  Free Improvisation 2
MUPG 572D2 (.5)  Free Improvisation 2

Harp:
3 credits from (may be taken more than once unless otherwise indicated):

MUEN 540 (.5)  Chamber Music Project 1
MUEN 541 (.5)  Chamber Music Project 2
MUEN 560** (1)  Chamber Music Ensemble
MUEN 561** (1)  2nd Chamber Music Ensemble
MUEN 568** (1)  Multiple Ensemble 1
MUEN 569** (1)  Tabla Ensemble
MUPG 571 (1)  Free Improvisation 1
MUPG 572D1 (.5)  Free Improvisation 2
MUPG 572D2 (.5)  Free Improvisation 2

OR

Guitar:
Three terms of:

MUEN 562 (1)  Guitar Ensemble

6 credits from the following:

MUEN 540 (.5)  Chamber Music Project 1
MUEN 541 (.5)  Chamber Music Project 2
MUEN 560** (1)  Chamber Music Ensemble
MUEN 561** (1)  2nd Chamber Music Ensemble
MUEN 568** (1)  Multiple Ensemble 1
MUEN 569** (1)  Tabla Ensemble
One 3-credit seminar at the 500 or 600 level with the prefix MU CO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

** MUEN 560, MUEN 561, and MUEN 568 may be taken more than once.

11.11.19 Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUPD 560 (1) Introduction 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

Thesis Performance (27 credits)

18 credits:

MUIN 620 (3) Performance Tutorial 1
MUIN 621 (3) Performance Tutorial 2
MUIN 622** (3) Performance Tutorial 3
MUIN 622D1** (1.5) Performance Tutorial 3
MUIN 622D2** (1.5) Performance Tutorial 3
MUPG 600* (9) Recital Project 1
MUPG 653* (9) Opera Coach Project

* Students may take MUPG 653 or MUPG 600.
** Students may take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from the following:

MUPG 601* (9) Recital Project 2
MUPG 602 (6) Recital Project 3
MUPG 605 (3) Recording Project
MUPG 606 (3) Interdisciplinary Project 1
MUPG 614 (3) Quick Study
MUPG 653* (9) Opera Coach Project
MUPG 654 (6) Opera Coach Performance

* Students may take either MUPG 653 (if not already taken) or MUPG 601 (if MUPG 600 not already taken).

Required Courses (3 credits)

MUGS 605 (0) Graduate Performance Colloquium
MUPG 687 (1) Collaborative Piano Repertoire 1: Song
MUPG 688 (1) Collaborative Piano Repertoire 2: Instrumental
MUPG 689 (1) Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

Complementary Seminars (9 credits)

3 credits from the following:

MUPG 590 (3) Vocal Styles and Conventions
MUPG 691 (3) Vocal Ornamentation
MUPP 690 (3) Performance Practice Seminar 1
MUPP 691 (3) Performance Practice Seminar 2
MUPP 692 (3) Performance Practice Seminar 3
MUPP 693 (3) Performance Practice Seminar 4
MUPP 694 (3) Performance Practice Seminar 5
MUPP 695 (3) Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

Complementary Performance (6 credits)

Two terms of:

MUEN 584 (1) Studio Accompanying

4 credits from the following (may be repeated unless otherwise noted):

MUEN 540 (.5) Chamber Music Project 1
MUEN 541 (.5) Chamber Music Project 2
MUEN 560 (1) Chamber Music Ensemble
MUEN 561 (1) 2nd Chamber Music Ensemble
MUEN 569 (1) Tabla Ensemble
MUEN 579 (1) Song Interpretation 2
MUEN 580 (1) Early Music Ensemble
MUEN 584 (1) Studio Accompanying
**11.11.1.20 Master of Music (M.Mus.) Performance: Piano (Thesis) (45 credits)**

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisite may be assigned as an additional required course on the basis of transcript review:

MUPD 560 - Intro to Research Methods in Music

**Thesis Performance (27 credits)**

18 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUIN 620</td>
<td>(3)</td>
<td>Performance Tutorial 1</td>
</tr>
<tr>
<td>MUIN 621</td>
<td>(3)</td>
<td>Performance Tutorial 2</td>
</tr>
<tr>
<td>MUIN 622</td>
<td>(3)</td>
<td>Performance Tutorial 3</td>
</tr>
<tr>
<td>MUIN 622D1*</td>
<td>(1.5)</td>
<td>Performance Tutorial 3</td>
</tr>
<tr>
<td>MUIN 622D2*</td>
<td>(1.5)</td>
<td>Performance Tutorial 3</td>
</tr>
<tr>
<td>MUPG 600</td>
<td>(9)</td>
<td>Recital Project 1</td>
</tr>
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</table>

* Students may take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(9)</td>
<td>Recital Project 2</td>
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<tr>
<td>MUPG 602*</td>
<td>(6)</td>
<td>Recital Project 3</td>
</tr>
<tr>
<td>MUPG 603</td>
<td>(3)</td>
<td>Recital Project 4</td>
</tr>
<tr>
<td>MUPG 604</td>
<td>(6)</td>
<td>Chamber Music Recital</td>
</tr>
<tr>
<td>MUPG 605</td>
<td>(3)</td>
<td>Recording Project</td>
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<tr>
<td>MUPG 606**</td>
<td>(3)</td>
<td>Interdisciplinary Project 1</td>
</tr>
<tr>
<td>MUPG 607**</td>
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</tr>
</tbody>
</table>

* Students may take either MUPG 601 or MUPG 602.

** Students may take either MUPG 606 or MUPG 607.

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 605</td>
<td>(0)</td>
<td>Graduate Performance Colloquium</td>
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<tr>
<td>MUPG 683</td>
<td>(1.5)</td>
<td>Piano Seminar 1</td>
</tr>
<tr>
<td>MUPG 684</td>
<td>(1.5)</td>
<td>Piano Seminar 2</td>
</tr>
</tbody>
</table>

If MUPG 541 and MUPG 542 were taken during the undergraduate degree, MUPG 683 and MUPG 684 may be replaced with one 3-credit graduate seminar or 3 complementary Performance credits.

**Complementary Seminars (9 credits)**

One of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPP 690</td>
<td>(3)</td>
<td>Performance Practice Seminar 1</td>
</tr>
<tr>
<td>MUPP 691</td>
<td>(3)</td>
<td>Performance Practice Seminar 2</td>
</tr>
</tbody>
</table>
MUPP 692 (3) Performance Practice Seminar 3
MUPP 693 (3) Performance Practice Seminar 4
MUPP 694 (3) Performance Practice Seminar 5
MUPP 695 (3) Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

**Complementary Performance (6 credits)**

6 credits from the following:

MUEN 540 (.5) Chamber Music Project 1
MUEN 541 (.5) Chamber Music Project 2
MUPD 580 (2) Piano Pedagogy Practicum
MUPG 571 (1) Free Improvisation 1
MUPG 572D1 (.5) Free Improvisation 2
MUPG 572D2 (.5) Free Improvisation 2
MUPG 614 (3) Quick Study
MUPG 646 (1) Score- and Sight-Reading 1
MUPG 647 (1) Score- and Sight-Reading 2
MUPG 670 (2) Advanced Continuo 1
MUPG 671 (2) Advanced Continuo 2
MUPG 687 (1) Collaborative Piano Repertoire 1: Song
MUPG 688 (1) Collaborative Piano Repertoire 2: Instrumental
MUPG 689 (1) Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

OR

6 credits from the following (courses below may be taken more than once):

MUEN 560 (1) Chamber Music Ensemble
MUEN 561 (1) 2nd Chamber Music Ensemble
MUEN 568 (1) Multiple Ensemble 1
MUEN 569 (1) Tabla Ensemble
MUEN 578 (1) Song Interpretation 1
MUEN 579 (1) Song Interpretation 2
MUEN 582 (1) Piano Ensembles
MUEN 584 (1) Studio Accompanying
MUEN 585 (1) Sonata Masterclass
MUEN 588 (1) Multiple Ensemble 2
MUEN 590 (2) McGill Wind Orchestra
MUEN 594 (2) Contemporary Music Ensemble
MUEN 597 (2) McGill Symphony Orchestra
MUEN 688 (2) Multiple Ensembles
11.11.21 Master of Music (M.Mus.) Performance: Organ and Church Music (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses based on transcript review:

- MUDP 560 (1) Introduction to Research Methods in Music
- MUPG 272D1 (2) Continuo
- MUPG 272D2 (2) Continuo

**Thesis Performance (27 credits)**

18 credits:
- MUIN 620 (3) Performance Tutorial 1
- MUIN 621 (3) Performance Tutorial 2
- MUIN 622* (3) Performance Tutorial 3
- MUIN 622D1* (1.5) Performance Tutorial 3
- MUIN 622D2* (1.5) Performance Tutorial 3
- MUPG 600 (9) Recital Project 1

* Students can take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from:
- MUPG 601 (9) Recital Project 2
- MUPG 602 (6) Recital Project 3
- MUPG 603 (3) Recital Project 4
- MUPG 605 (3) Recording Project
- MUPG 606 (3) Interdisciplinary Project 1
- MUPG 607 (6) Interdisciplinary Project 2
- MUPG 676 (9) Special Project in Church Music

**Required Course**

- MUGS 605 (0) Graduate Performance Colloquium

**Complementary Seminars (9 credits)**

3 credits from the following:
- MUPP 690 (3) Performance Practice Seminar 1
- MUPP 691 (3) Performance Practice Seminar 2
- MUPP 692 (3) Performance Practice Seminar 3
- MUPP 693 (3) Performance Practice Seminar 4
- MUPP 694 (3) Performance Practice Seminar 5
- MUPP 695 (3) Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.
3 credits from the following:

- MUHL 591D1 (1.5) Paleography
- MUHL 591D2 (1.5) Paleography
- MUTH 602 (3) Keyboard Modal Counterpoint
- MUTH 604 (3) Keyboard Tonal Counterpoint

or one graduate 3-credit seminar approved by the Department.

**Complementary Performance (9 credits)**

9 credits from the following:

- MUEN 540 (0.5) Chamber Music Project 1
- MUEN 541 (0.5) Chamber Music Project 2
- MUEN 560* (1) Chamber Music Ensemble
- MUEN 561* (1) 2nd Chamber Music Ensemble
- MUEN 569* (1) Tabla Ensemble
- MUEN 573* (2) Baroque Orchestra
- MUEN 580* (1) Early Music Ensemble
- MUEN 593* (2) Choral Ensembles
- MUEN 594* (2) Contemporary Music Ensemble
- MUEN 597* (2) McGill Symphony Orchestra
- MUHL 591D1** (1.5) Paleography
- MUHL 591D2** (1.5) Paleography
- MUPG 575D1* (1.5) Liturgical Organ Playing
- MUPG 575D2* (1.5) Liturgical Organ Playing
- MUPG 674 (3) Project in Choral Conducting
- MUTH 602** (3) Keyboard Modal Counterpoint
- MUTH 604** (3) Keyboard Tonal Counterpoint

* May be taken more than once.
** If not taken as a seminar.

**11.11.22 Master of Music (M.Mus.) Performance: Conducting (Thesis) (45 credits)**

Instrumental and Choral

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisite courses may be assigned as additional courses based on transcript review:

- MUPD 560 (1) Introduction to Research Methods in Music
- MUSP 500D1 (1) Keyboard for Professional Practice
- MUSP 500D2 (1) Keyboard for Professional Practice

Choral Conducting:

- MUCO 261 (3) Orchestration 1
- MUPG 210* (2) Italian Diction
**French Diction (2)**

**English Diction (2)**

**German Diction (2)**

* Students take either MUPG 210, MUPG 211, MUPG 212 or MUPG 213

OR

**Instrumental Conducting:**

3 credits of:

- **MU CO 261 (3)** Orchestration 1
- **MU CO 360 (3)** Orchestration 2

**Thesis Performance (30 credits)**

18 credits:

- **MU IN 630 (3)** Conducting Tutorial 1
- **MU IN 631 (3)** Conducting Tutorial 2
- **MU IN 632 (3)** Conducting Tutorial 3
- **MUPG 600 (9)** Recital Project 1

9 credits from the following:

- **MUPG 601 (9)** Recital Project 2
- **MUPG 602 (6)** Recital Project 3
- **MUPG 605 (3)** Recording Project

**Required Course**

Two terms of:

- **MUGS 605 (0)** Graduate Performance Colloquium
- **MUPG 580 (1.5)** Rehearsal Techniques for Conductors

**Complementary Credits (15 credits)**

Seminars:

3 credits from the following:

- **MUPP 690 (3)** Performance Practice Seminar 1
- **MUPP 691 (3)** Performance Practice Seminar 2
- **MUPP 692 (3)** Performance Practice Seminar 3
- **MUPP 693 (3)** Performance Practice Seminar 4
- **MUPP 694 (3)** Performance Practice Seminar 5
- **MUPP 695 (3)** Performance Practice Seminar 6

3 credits of a graduate seminar with the prefix MU CO, MUGS, MU GT, MU HL, MUM T, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.
Complementary Performance (6 credits)

MUEN 564 (1) Conducting Workshop

Choral Conducting:

MUEN 572 (2) Cappella Antica
MUEN 593 (2) Choral Ensembles

OR

Instrumental Conducting:

MUEN 573 (2) Baroque Orchestra
MUEN 590 (2) McGill Wind Orchestra
MUEN 592 (2) Chamber Jazz Ensemble
MUEN 594 (2) Contemporary Music Ensemble
MUEN 595 (2) Jazz Ensembles
MUEN 597 (2) McGill Symphony Orchestra

11.11.23 Master of Music (M.Mus.) Performance: Opera and Voice (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses based on transcript review:

MUPD 560 (1) Introduction 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

Thesis Courses (27 credits)

9 credits:
MUIN 620 (3) Performance Tutorial 1
MUIN 621 (3) Performance Tutorial 2
MUIN 622* (3) Performance Tutorial 3
MUIN 622D1* (1.5) Performance Tutorial 3
MUIN 622D2* (1.5) Performance Tutorial 3
And

**Opera Performance Thesis (18 credits)**

9 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 600*</td>
<td>9</td>
<td>Recital Project 1</td>
</tr>
</tbody>
</table>

* Principal Opera Role only; by audition.

9 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
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</thead>
<tbody>
<tr>
<td>MUPG 601*</td>
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<tr>
<td>MUPG 602**</td>
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<td>Recital Project 3</td>
</tr>
<tr>
<td>MUPG 603***</td>
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<td>MUPG 605</td>
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<td>Recording Project</td>
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<tr>
<td>MUPG 606</td>
<td>3</td>
<td>Interdisciplinary Project 1</td>
</tr>
<tr>
<td>MUPG 614</td>
<td>3</td>
<td>Quick Study</td>
</tr>
</tbody>
</table>

* Principal Opera Role only; by audition.
** Featured Opera Role only; by audition.
*** Supporting Opera Role only; by audition.

OR

**Voice Thesis Performance (18 credits)**

9 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 600*</td>
<td>9</td>
<td>Recital Project 1</td>
</tr>
</tbody>
</table>

* Solo Recital only.

9 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>Recording Project</td>
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<td>MUPG 606</td>
<td>3</td>
<td>Interdisciplinary Project 1</td>
</tr>
<tr>
<td>MUPG 607</td>
<td>6</td>
<td>Interdisciplinary Project 2</td>
</tr>
<tr>
<td>MUPG 614</td>
<td>3</td>
<td>Quick Study</td>
</tr>
</tbody>
</table>

* Solo Recital; or Principal Opera Role by audition.
** Solo Recital; or Featured Opera Role by audition.

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 605</td>
<td>(0)</td>
<td>Graduate Performance Colloquium</td>
</tr>
<tr>
<td>MUIN 610</td>
<td>(1)</td>
<td>Vocal Coaching 1</td>
</tr>
<tr>
<td>MUIN 611</td>
<td>(1)</td>
<td>Vocal Coaching 2</td>
</tr>
<tr>
<td>MUIN 612</td>
<td>(1)</td>
<td>Vocal Coaching 3</td>
</tr>
</tbody>
</table>

**Complementary Seminars (9 credits)**

3 credits from the following:
MUPG 590* (3) Vocal Styles and Conventions
MUPP 690 (3) Performance Practice Seminar 1
MUPP 691 (3) Performance Practice Seminar 2
MUPP 692 (3) Performance Practice Seminar 3
MUPP 693 (3) Performance Practice Seminar 4
MUPP 694 (3) Performance Practice Seminar 5
MUPP 695 (3) Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

MUPG 590* (3) Vocal Styles and Conventions
MUPG 691 (3) Vocal Ornamentation
MUPG 693 (3) Vocal Treatises and Methods
MUPG 694 (3) Vocal Physiology for Singers

* If not already taken.

Complementary Performance (6 credits)

Opera:
Two terms of:

MUEN 696 (1) Opera Theatre

2 credits of:

MUEN 696 (1) Opera Theatre

OR

Two terms of:

MUEN 579 (1) Song Interpretation 2

Or

Voice:
6 credits from (may be taken more than once):

MUEN 540 (.5) Chamber Music Project 1
MUEN 541 (.5) Chamber Music Project 2
MUEN 553 (1) Vocal Chamber Ensemble
MUEN 554 (2) Opera Excerpts
MUEN 560 (1) Chamber Music Ensemble
MUEN 572 (2) Cappella Antica
MUEN 579 (1) Song Interpretation 2
MUEN 580 (1) Early Music Ensemble
MUEN 593 (2) Choral Ensembles
MUEN 696  (1) Opera Theatre

11.11.1.24 Graduate Diploma (Gr. Dip.) Performance (30 credits)
A one-year graduate performance diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloist, opera singers, collaborative pianists, chamber, jazz and orchestral musicians or for further graduate studies in performance. Flexible program requirements, with range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or M.Mus.

Pre-requisite Courses
Harpsichord:
MUPG 272D1  (2) Continuo
MUPG 272D2  (2) Continuo
MUPG 372D1  (1) Continuo
MUPG 372D2  (1) Continuo

Required Courses (16 credits)
MUIN 634  (8) Graduate Diploma Tutorial 1
MUIN 635  (8) Graduate Diploma Tutorial 2

Complementary Courses (14 credits)
8 credits from the following:
MUPG 640  (4) Graduate Diploma Performance Project 1
MUPG 641  (4) Graduate Diploma Performance Project 2
MUPG 642  (8) Graduate Diploma Performance Project 3
MUPG 643  (4) Graduate Diploma Interdisciplinary Project
MUPG 644  (4) Graduate Diploma Concerto Performance
MUPG 645  (4) Graduate Diploma Recording Project

6 credits of Performance courses with departmental approval from:
Any ensemble course with the prefix MUEN at the 500 or 600 level.
MUPG 571*  (1) Free Improvisation 1
MUPG 572D1** (.5) Free Improvisation 2
MUPG 572D2** (.5) Free Improvisation 2

* may only be taken once (not open to Jazz students)
** may only be taken once
and the additional courses from the following list for these areas:

Voice
MUIN 610*  (1) Vocal Coaching 1
MUIN 611*  (1) Vocal Coaching 2
MUPG 590**  (3) Vocal Styles and Conventions

* may be taken only once per diploma
** if not already taken

### Piano

- MUPG 670* (2) Advanced Continuo 1
- MUPG 671* (2) Advanced Continuo 2
- MUPG 683 (1.5) Piano Seminar 1
- MUPG 684 (1.5) Piano Seminar 2
- MUPG 687** (1) Collaborative Piano Repertoire 1: Song
- MUPG 688** (1) Collaborative Piano Repertoire 2: Instrumental
- MUPG 689** (1) Collaborative Piano Rep. 3: Orch. Reduction, Opera, Oratorio

* if not already taken

** may be repeated with the permission of the instructor

### Chamber Music

- MUIN 500* (1) Practical Instruction 1

* may be repeated only once per program

### Organ

- MUPG 575D1 (1.5) Liturgical Organ Playing
- MUPG 575D2 (1.5) Liturgical Organ Playing
- MUPG 670* (2) Advanced Continuo 1
- MUPG 671* (2) Advanced Continuo 2

One 3-credit seminar at the 500 or 600 level approved by the Department

* if not already taken

### Early Music

- MUPG 670* (2) Advanced Continuo 1
- MUPG 671* (2) Advanced Continuo 2

* if not already taken

### Jazz

- MUJZ 640* (2) Jazz Composition & Arranging 1
- MUJZ 641* (2) Jazz Composition & Arranging 2
- MUPG 678* (3) Seminar in Performance Topics 2

One 3-credit seminar starting with MUPG*

* if not already taken

### 11.11.25 Graduate Artist Diploma (Gr. Art. Dip.) Performance (30 credits)

A one-year graduate performance diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloists, opera singers, collaborative pianists, chamber, jazz, and orchestral musicians or for further graduate studies in performance. Program requirements are flexible, with a range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or M.Mus.
Co-requisite Courses
For Harpsichord students:

MUPG 272D1 (2) Continuo
MUPG 272D2 (2) Continuo
MUPG 372D1 (1) Continuo
MUPG 372D2 (1) Continuo

Required Courses (16 credits)
MUIN 710 (8) Graduate Artist Diploma Tutorial 1
MUIN 711 (8) Graduate Artist Diploma Tutorial 2

Complementary Courses (14 credits)
8 credits from the following:

MUPG 740 (4) Graduate Artist Diploma Performance Project 1
MUPG 741 (4) Graduate Artist Diploma Performance Project 2
MUPG 742 (8) Graduate Artist Diploma Performance Project 3
MUPG 743 (4) Graduate Artist Diploma Interdisciplinary Project
MUPG 744 (4) Graduate Artist Diploma Concerto Performance
MUPG 745 (4) Graduate Artist Diploma Recording Project

0-3 credits from:

MUSR 692 (3) Music Production Workshop

* Required of all instruments except Voice

3-6 credits from:
Performance courses with departmental approval from the following lists:
Any ensemble course with the prefix MUEN at the 500 or 600 level

MUPG 571* (1) Free Improvisation 1
MUPG 572D1* (.5) Free Improvisation 2
MUPG 572D2* (.5) Free Improvisation 2

* may be taken only once
and the additional courses from the following list for these areas:

Voice
MUIN 610* (1) Vocal Coaching 1
MUIN 611* (1) Vocal Coaching 2

* may be taken only once per diploma

Piano
MUPG 670* (2) Advanced Continuo 1
MUPG 671* (2) Advanced Continuo 2
MUPG 687** (1)  Collaborative Piano Repertoire 1: Song
MUPG 689** (1)  Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

* if not already taken.

** may be repeated with permission of the instructor.

Chamber Music
MUIN 500* (1)  Practical Instruction 1

* may be repeated once per program.

Organ
MUPG 575D1 (1.5)  Liturgical Organ Playing
MUPG 575D2 (1.5)  Liturgical Organ Playing
MUPG 670* (2)  Advanced Continuo 1
MUPG 671* (2)  Advanced Continuo 2

One 3-credit seminar at the 500 or 600 level approved by the Department
* if not already taken.

Early Music
MUPG 670* (2)  Advanced Continuo 1
MUPG 671* (2)  Advanced Continuo 2

* if not already taken.

11.11.126 Doctor of Music (D.Mus.) Music: Composition

A minimum of two years' residence is required beyond the M.Mus. in Composition, or its equivalent. Details concerning the comprehensive examinations, composition performance, thesis, and academic regulations are available from the Graduate Coordinator, Schulich School of Music or from the Music Graduate Handbook (http://www.mcgill.ca/music/current-students/graduate/graduate-music-handbook).

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis
The thesis is a musical composition of major dimensions together with a written analysis of the work. The thesis must be defended in an oral examination.

Required Courses (12 credits)
MUGS 701 (0)  Comprehensive Examination Part 1
MUGS 702 (0)  Comprehensive Examination Part 2

12 credits (two years) of:
MUCO 722D1 (3)  Doctoral Composition Tutorial
MUCO 722D2 (3)  Doctoral Composition Tutorial

Elective Courses (12 credits)
Four approved 3-credit graduate electives or the equivalent.

Composition Performance
The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

11.11.27 Doctor of Music (D.Mus.) Music: Performance Studies

A minimum of two years' residence is required beyond the M.Mus. in Performance, or its equivalent.

Details concerning the comprehensive examinations, composition performance, thesis and academic regulations are available from the Graduate Studies website (http://www.mcgill.ca/music).

Thesis

Recitals (33 credits)

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>MUPG 760</td>
<td>(12)</td>
<td>Doctoral Recital 1</td>
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<tr>
<td>MUPG 767</td>
<td>(12)</td>
<td>Doctoral Recital 2</td>
</tr>
<tr>
<td>MUPG 770</td>
<td>(9)</td>
<td>Doctoral Lecture - Recital Project</td>
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Required Courses (35 credits)

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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 701</td>
<td>(0)</td>
<td>Comprehensive Examination Part 1</td>
</tr>
<tr>
<td>MUGS 702</td>
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<td>Comprehensive Examination Part 2</td>
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<tr>
<td>MUGS 710D1</td>
<td>(1.5)</td>
<td>Performance Doctoral Colloquium</td>
</tr>
<tr>
<td>MUGS 710D2</td>
<td>(1.5)</td>
<td>Performance Doctoral Colloquium</td>
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</tbody>
</table>

Six terms of one hour per week of Performance Tutorials:

<table>
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<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MUIN 720</td>
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<td>D.Mus. Performance Tutorial 1</td>
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<tr>
<td>MUIN 721</td>
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<td>D.Mus. Performance Tutorial 4</td>
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<td>MUIN 724</td>
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<tr>
<td>MUIN 725</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 6</td>
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</table>

OR

four terms of 1.5 hours per week of Performance Tutorials:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUIN 730</td>
<td>(6)</td>
<td>D.Mus. Performance Tutorial 8</td>
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<td>MUIN 731</td>
<td>(6)</td>
<td>D.Mus. Performance Tutorial 9</td>
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<tr>
<td>MUIN 732</td>
<td>(6)</td>
<td>D.Mus. Performance Tutorial 10</td>
</tr>
<tr>
<td>MUIN 733</td>
<td>(6)</td>
<td>D.Mus. Performance Tutorial 11</td>
</tr>
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</table>

Voice candidates only: four terms of Vocal Repertoire Coaching:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>MUIN 700</td>
<td>(2)</td>
<td>Doctoral Repertoire Coaching 1</td>
</tr>
<tr>
<td>MUIN 701</td>
<td>(2)</td>
<td>Doctoral Repertoire Coaching 2</td>
</tr>
<tr>
<td>MUIN 702</td>
<td>(2)</td>
<td>Doctoral Repertoire Coaching 3</td>
</tr>
<tr>
<td>MUIN 703</td>
<td>(2)</td>
<td>Doctoral Repertoire Coaching 4</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)
Four graduate-level courses (3 credits each), to be chosen from among the Faculty's course offerings in consultation with the advisory committee. Three of the four courses should be in the Department of Music Research; one of the four may be replaced with a supervised special project approved by the advisory committee and the performance graduate sub-committee.

11.11.1.28 Doctor of Philosophy (Ph.D.) Music (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

(Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

The Ph.D. requires a minimum of three years of full-time resident study (six full-time terms) beyond a bachelor's degree. A candidate who holds a master's degree in the area of specialization may, on the recommendation of the Department, be permitted to count the work done for the master's degree as the first year of resident study.

Details concerning the comprehensive examinations, thesis, and academic regulations are available from the Graduate Studies Coordinator, Schulich School of Music or from the Music Graduate website at: http://www.mcgill.ca/music/programs.

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

All courses and language requirements and the comprehensive examinations must be successfully completed before the thesis proposal is submitted.

**Language Reading Requirements**

No foreign-language reading examinations required in Sound Recording and Music Technology.

**Composition/Music Education**

One foreign-language reading examination required. Students whose mother tongue is French are exempt from the French Reading Exam.

**Musicology**

One foreign-language reading examination required in one language other than English (or French for francophone students) as determined in consultation with their supervisor. All students who intend to do dissertation research on music in the European tradition are strongly advised to acquire reading knowledge of German in addition to the language requirement related to their research.

**Music Theory**

Two foreign languages required. Normally, one of these will be German and the other related to the candidate's field of research. An additional language may be required if considered necessary for the candidate's research. Students whose mother tongue is French are exempt from the French Language Reading examination. Note: The language reading examinations must be passed before a candidate will be permitted to sit the comprehensive examinations.

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 701</td>
<td>(0)</td>
<td>Comprehensive Examination Part 1</td>
</tr>
<tr>
<td>MUGS 702</td>
<td>(0)</td>
<td>Comprehensive Examination Part 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (6-36 credits)**

**Students entering in Ph.D. 1**

A minimum of five 3-credit graduate courses approved by the Department (the Doctoral Tutorial will be considered a course for purposes of this requirement). Additional graduate courses (normally two to seven 3-credit graduate courses), will be assigned by the Director of Graduate Studies in consultation with the area chair at the time of the admissions decision.

0-6 credits (for Music Theory students who have not completed these or equivalent courses) from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTH 658</td>
<td>(3)</td>
<td>History of Music Theory 1</td>
</tr>
<tr>
<td>MUTH 659</td>
<td>(3)</td>
<td>History of Music Theory 2</td>
</tr>
</tbody>
</table>

**Students entering in Ph.D. 2**
Applicants who have completed a master’s degree before entering the Ph.D. program will be admitted into Ph.D. 2, and assigned graduate courses (normally two to seven 3-credit graduate courses) beyond the master's requirements.

The number of courses will be assigned by the Director of Graduate Studies in consultation with the area chair at the time of the admissions decision. Applicants in composition will be required to complete at least four approved 3-credit graduate courses and 12 credits (two years) of:

- Doctoral Composition Tutorial (MU CO 722D1, 3 credits)
- Doctoral Composition Tutorial (MU CO 722D2, 3 credits)

0-6 credits (for Music Theory students who have not completed these or equivalent courses) from:

- History of Music Theory 1 (MUTH 658, 3 credits)
- History of Music Theory 2 (MUTH 659, 3 credits)

**Doctoral Colloquium**

Required attendance for four terms of the Doctoral Colloquium:

Note: Regular attendance and at least one presentation on his/her thesis research in the colloquium during the course of their doctoral studies is required.

- Colloquium (MUGS 705, 0 credits)

**Composition Performance**

Composition applicants only:

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

**11.11.129 Doctor of Philosophy (Ph.D.) Music: Gender and Women's Studies**

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Language Reading Requirements**

Two foreign languages required (one foreign language for students in composition, music education; none required for students in sound recording and music technology).

Normally, one of these will be German and the other related to the candidate's field of research.

A third language may be required if considered necessary for the candidate's research.

Students whose mother tongue is French are exempt from the French Language Reading examination. Note: The language reading examinations must be passed before a candidate will be permitted to sit the comprehensive examinations.

**Required Courses (6 credits)**

- Feminist Theories and Methods (WMST 601, 3 credits)
- Feminist Research Symposium (WMST 602, 3 credits)

**Comprehensive examination**

- Comprehensive Examination Part 1 (MUGS 701, 0 credits)
- Comprehensive Examination Part 2 (MUGS 702, 0 credits)

**Doctoral Colloquium**
Note: Regular attendance and at least one presentation of their thesis research in the Colloquium during the course of their doctoral studies is required.

**Complementary Courses (12-27 credits)**

12-27 credits of graduate courses at the 500 level or higher, approved by the Department (3 of the 27 credits must be in gender/women's studies, taken in the Department or outside and approved by the Department).

Applicants who have completed an M.A. degree in music (or equivalent) before entering the Ph.D. program will be required to complete at least 12 credits of courses at the 500, 600, or 700 level approved by the Department beyond the M.A. requirements (3 of the 12 credits must be in gender/women's studies, taken in the Department or outside and approved by the Department).

### 12 Ingram School of Nursing

#### 12.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

*Josephine Nalbantoglu, Ph.D.*

*Dean, Graduate and Postdoctoral Studies*

#### 12.2 Graduate and Postdoctoral Studies

##### 12.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc. (La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkänen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

##### 12.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: [www.mcgill.ca/gps](http://www.mcgill.ca/gps)

*Note:* For inquiries regarding specific graduate programs, please contact the appropriate department.
12.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

12.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

12.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

12.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

12.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

12.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

12.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Postdoctoral Research section of this publication contains important details required by postdoctoral scholars during their studies at McGill and should be periodically consulted, along with other sections and related publications.
12.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

12.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions

   i. Appointments may not exceed your registration eligibility status.

   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

   v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

   i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

   ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

   iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

   v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

   vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.
vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at [www.mcgill.ca/students/srr](http://www.mcgill.ca/students/srr) and must abide by the policies listed at [www.mcgill.ca/secretariat/policies-and-regulations](http://www.mcgill.ca/secretariat/policies-and-regulations).

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

- to verify the Postdoc’s eligibility period for registration;
- to provide Postdocs with departmental policy and procedures that pertain to them;
- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
- to include Postdocs in departmental career and placement opportunities;
- to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

- to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
- to provide research guidance;
- to meet regularly with their Postdocs;
- to provide feedback on research submitted by the Postdocs;
- to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
- to provide mentorship for career development;
- to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:

- to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at [www.mcgill.ca/students/srr](http://www.mcgill.ca/students/srr) and the Graduate and Postdoctoral Studies University Regulations and Resources;
- to submit a complete file for registration to Enrolment Services;
- to sign and adhere to their Letter of Agreement for Postdoctoral Education;
- to communicate regularly with their supervisor;
- to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

- to register Postdocs;
- to provide an appeal mechanism in cases of conflict;
- to provide documented policies and procedures to Postdocs;
- to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

12.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

12.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).
Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

12.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage.

Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfils criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

12.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work
12.10  Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

• Policy on Research Ethics
• Regulations on Research Policy
• Policy on Research Integrity
• Guidelines for Research Involving Human Subjects
• Guidelines for Research with Animal Subjects
• Policy on Intellectual Property
• Regulations Governing Conflicts of Interest
• Safety in Field Work
• Office of Sponsored Research
• Postdocs
• Research Associates

12.11  Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

12.11.1  Nursing

12.11.1.1 Location

Note: The Ingram School of Nursing has moved to 680 Sherbrooke Street West as of August 2017. For more information, see the School's website.

Ingram School of Nursing
680 Sherbrooke West, Suite 1800
Montreal QC H3A 2M7
Canada
Telephone: 514-398-4144
Fax: 514-398-8455
Website: www.mcgill.ca/nursing

12.11.1.2 About Nursing

The Ingram School of Nursing is a professional School within the Faculty of Medicine that has been educating nurses since 1920. On September 10, 2012 the School was formally renamed the Ingram School of Nursing in recognition of Richard and Satoko Ingram and their exceptional support for Nursing at McGill. The School is internationally recognized for its distinctive vision, leadership in nursing, and the quality of its programs. McGill nursing graduates have earned a reputation as outstanding clinicians, educators, researchers, and leaders in their discipline.

Recently, the Ingram School of Nursing adopted Strengths-Based Nursing (SBN) as its foundation for practice, education, and research. SBN is a culmination of an approach to nursing that has been an integral part of the McGill School of Nursing since its founding in 1920, evolving from the McGill Model of Nursing. SBN is both a philosophy as well as a value-driven approach that has as its foundational pillars in person/family-centred care, empowerment, relational care, and innate and acquired healing.

At the graduate level, the Ingram School of Nursing offers tailored programs in advanced nursing practice that prepare our students to be leaders in their field. The learning experience at the School is geared to foster individual judgment, creativity, and initiative. Led by nationally recognized researchers, students will participate in cutting-edge programs of research related to nursing practice and administration. McGill's Ingram School of Nursing is for you if you want to contribute to the knowledge base of advanced nursing practice and want to be involved actively in changing how healthcare is delivered locally, nationally, and internationally.

The School and its lab moved to 680 Sherbrooke Street West in August 2017 and occupy the 18th, 19th, and 20th floors of that building. Lab size has tripled, and new simulation labs have been designed to offer students a wealth of hands-on experience. The new space also accommodates student lounges, faculty and staff offices, mid- and small-sized classrooms, and meeting rooms. Students registered in the School also take courses in other faculties within the University. Selected experience in nursing is provided in the McGill University Health Centre, other McGill-affiliated hospitals, and in a wide variety of health agencies in Montreal.
For information on undergraduate programs, please consult the Ingram School of Nursing's Undergraduate section.

M.Sc.A. Program and Concentrations

The Master's (Applied) in Nursing is offered in a number of formal concentrations, which are listed in the table below.

Graduate Certificates and Diplomas

Nurse applicants with a Master's degree in Nursing and with the required clinical experience are prepared for nurse practitioner roles through our Graduate Certificate and/or Diploma programs. These programs offer students the necessary biomedical skills and knowledge in either Neonatology, Pediatrics, Mental Health, or Primary Care to prepare them for the next step to their career, which is the OIQ (Ordre des infirmières et infirmiers du Québec) nurse practitioner licensing exam.

Doctoral Program

The Ph.D. program prepares nurses to contribute to the development of knowledge in the discipline through research and academia. Ph.D.-prepared faculty members are experts and active researchers in a wide variety of areas related to nursing practice, administration, and education.

section 12.11.1.5: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Advanced Clinical Practice (48 credits)

This concentration is open to bachelor-prepared nurse students for full-time (two-year program of study) or part-time studies (three to four years of study). The core content of the CNS concentration prepares students for advanced practice nursing roles in diverse settings and with diverse populations. Content is organized based on Strengths-Based Nursing and focuses on such areas as family intervention, collaborative practice, and working with family strengths and resources. Through clinical courses, students engage in advanced clinical assessments and interventions, and develop greater capacities to reflect purposefully and in-depth on their nursing practice. Research methods, systematic study of clinically-based nursing problems, and dissemination of knowledge relevant to clinical practice are all developed within this program of study.

section 12.11.1.6: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Direct Entry Nursing (58 credits)

The Direct Entry Nursing concentration remains the only one of its kind in Canada. This three-year program is tailored to the university graduate with a general Arts or Science degree and no previous preparation in nursing. Candidates complete entry-to-practice preparation in nursing while also completing graduate level studies. Upon completion of the M.Sc.A. Year 2, graduates are eligible to write the OIQ (Ordre des infirmières et infirmiers du Québec) licensing exam. This program is accredited by the Canadian Association of Schools of Nursing (CASN).

section 12.11.1.7: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health (48 credits)

This concentration is open to bachelor-prepared nurse students who wish to include global health content throughout their program of study. It sets out to prepare students for the challenges of working with diverse populations in local and limited-resource environments with a philosophy stressing the importance of understanding the inherent power dynamics, equity issues, and ethical dilemmas that arise through this work. Students spend one semester in their final year taking clinical- and project-based courses in a global health placement setting.

section 12.11.1.8: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health Direct Entry (58 credits)

The Global Health Direct Entry concentration is thus labelled for bachelor-prepared non-nurse students who wish to include global health content throughout their program of study. It sets out to prepare students for the challenges of working with diverse populations in local and limited-resource environments, based on the belief that we have much to learn from one another. Students spend one semester in a global health placement setting in their final year taking clinical- and project-based courses in their final year in a global health placement setting. This concentration is managed by the Global Health Committee of the Ingram School of Nursing.

section 12.11.1.9: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Mental Health Nurse Practitioner (45 credits)

This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Mental health nurse practitioners autonomously assess, diagnose, and treat mental health conditions that fall within their scope of practice, providing care to all age groups, in secondary and tertiary care settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma Nurse Practitioner program in this specialty, which is the next step before the relevant licensing exam of the OIQ (Ordre des infirmières et infirmiers du Québec).


This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Neonatal nurse practitioners autonomously assess, diagnose, and treat pediatric health conditions that fall within their scope of practice, providing care to neonates and their families in intermediate, acute, and critical care neonatal settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma Nurse Practitioner program in this specialty, which is the next step before the relevant licensing exam of the OIQ (Ordre des infirmières et infirmiers du Québec).

section 12.11.1.11: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Education (50 credits)

This program is currently closed for admissions.
section 12.11.1.11: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Education (50 credits)

This concentration is open to bachelor-prepared nurse students. It was developed to expose graduate-level nurses to instructional and learning theory, to better equip them to lead the movement towards more innovative and effective pedagogical approaches in training nurses working in healthcare establishments or nursing students in academic settings.

section 12.11.1.12: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Services Administration (49 credits)

This concentration is open to bachelor-prepared nurse students. Students in this concentration develop their capacity to assess the factors that affect and determine the nursing workforce. This will enable them to make strategic and effective decisions, and influence policy with regard to the planning and management of the nursing workforce.


This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Pediatric nurse practitioners autonomously assess, diagnose, and treat pediatric health conditions that fall within their scope of practice, providing care to children, ranging in age from infancy to young adulthood, in secondary and tertiary care settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma Nurse Practitioner program in this specialty, which is the next step before the relevant licensing exam of the OIIQ (Ordre des infirmières et infirmiers du Québec).

section 12.11.1.14: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Primary Care Nurse Practitioner (45 credits)

This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Primary care nurse practitioners autonomously assess, diagnose, and treat a wide range of acute and chronic health conditions that fall within their scope of practice for patients and families of all ages in primary care settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma Nurse Practitioner program in this specialty, which is the next step before the relevant licensing exam of the OIIQ (Ordre des infirmières et infirmiers du Québec).

section 12.11.1.15: Graduate Certificate (Gr. Cert.) Theory in Mental Health (15 credits)

This program of study is open to graduate-prepared nurses and focuses on the acquisition of advanced-level knowledge of the biomedical sciences that is required for NP (nurse practitioner) practice. The Graduate Certificate Theory and the Graduate Diploma Nurse Practitioner specialty programs cannot be taken concurrently.

section 12.11.1.16: Graduate Certificate (Gr. Cert.) Theory in Neonatology (15 credits)

This program of study is open to graduate-prepared nurses and focuses on the acquisition of advanced-level knowledge of the biomedical sciences that is required for NP (nurse practitioner) practice. The Graduate Certificate Theory and the Graduate Diploma Nurse Practitioner specialty programs cannot be taken concurrently.

section 12.11.1.17: Graduate Certificate (Gr. Cert.) Theory in Pediatrics (15 credits)

This program of study is open to graduate-prepared nurses and focuses on the acquisition of advanced-level knowledge of the biomedical sciences that is required for NP (nurse practitioner) practice. The Graduate Certificate Theory and the Graduate Diploma Nurse Practitioner specialty programs cannot be taken concurrently.

section 12.11.1.18: Graduate Certificate (Gr. Cert.) Theory in Primary Care (15 credits)

This program of study is open to graduate-prepared nurses and focuses on the acquisition of advanced-level knowledge of the biomedical sciences that is required for NP (nurse practitioner) practice. The Graduate Certificate Theory and the Graduate Diploma Nurse Practitioner specialty programs cannot be taken concurrently.

section 12.11.1.19: Graduate Diploma (Gr. Dip.) Mental Health Nurse Practitioner (30 credits)

This diploma is open to graduates of the Mental Health Nurse Practitioner M.Sc.A. or the Mental Health Graduate Certificate. In this final step of preparation for taking on the Mental Health NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of psychology and the biomedical sciences through their application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the mental health nurse practitioner licensing exam.

section 12.11.1.20: Graduate Diploma (Gr. Dip.) Neonatal Nurse Practitioner (30 credits)

This diploma is open to graduates of the Neonatal Nurse Practitioner M.Sc.A. or the Neonatal Graduate Certificate. In this final step of preparation for taking on the Neonatal NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the neonatal nurse practitioner licensing exam.
section 12.11.1.21: Graduate Diploma (Gr. Dip.) Pediatric Nurse Practitioner (30 credits)

This diploma is open to graduates of the Pediatric Nurse Practitioner M.Sc.A. or the Pediatric Graduate Certificate. In this final step of preparation for taking on the Pediatric NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the pediatric nurse practitioner licensing exam.

section 12.11.1.22: Graduate Diploma (Gr. Dip.) Primary Care Nurse Practitioner (30 credits)

This diploma is open to graduates of the Primary Care Nurse Practitioner M.Sc.A. or the Primary Care Graduate Certificate. In this final step of preparation for taking on the Primary Care NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the primary care nurse practitioner licensing exam.

section 12.11.1.23: Doctor of Philosophy (Ph.D.) Nursing

The Ingram School of Nursing of McGill University offers a doctorate program leading to a Ph.D. in Nursing. The program trains nurse scientists who will make a contribution to the advancement of knowledge in the discipline of nursing and assume a leadership role both in the profession and in the health care system. The program is open to nurses with either an undergraduate or graduate degree in Nursing, or students who have completed a 2-year master’s program in Nursing or a related field.

section 12.11.1.24: Doctor of Philosophy (Ph.D.) Nursing: Psychosocial Oncology

The Psychosocial Oncology option is currently not offered.

12.11.1.3 Nursing Admission Requirements and Application Procedures

12.11.1.3.1 Admission Requirements

Proficiency in English

Since the language of instruction at McGill University is English, some applicants may need to provide proof of English language proficiency. Please visit the Graduate and Postdoctoral Studies website to see if this applies to you. Applicants must write term papers, examinations, and theses in English or in French. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office.

- TOEFL: a minimum score of 100 on the Internet-based test (iBT; 600 on the paper-based test (PBT)) with each component score no less than 20
- IELTS: a minimum overall score of 7.5

An institutional version of the TOEFL is not acceptable. Applications will not be considered if TOEFL or IELTS test results are not available.

For more information about the Language Policy at McGill University, please refer to University Regulations & Resources > Graduate > Regulations > section 1.2.7: Language Policy.

GRE (Graduate Record Examination) general test results may be required in individual circumstances.

Students who have not completed their studies in North America may be asked to arrange for an interview as part of the application process.

Master’s, Graduate Certificate, and Graduate Diploma Programs

Nurse applicants to the master’s program may complete their studies on a part-time basis (with the exception of those in Nurse Practitioner areas of study, where only the first year may be taken part-time), i.e., minimum of 3 credits per term to a maximum of five years. Applicants to the Graduate Certificates and Graduate Diplomas should consult with their adviser concerning course load.

Nurse applicants are expected to hold current registration in their Canadian province or in the United States. Nurses who are not licensed in Quebec must be registered with the Ordre des infirmières et infirmiers du Québec upon the start of their graduate studies. Nurse applicants to the Nurse Practitioner programs must hold current and full licensure with the OIQ.

Nurse applicants whose previous nursing degree(s) was completed outside of Canada are required to have at least one year of experience as nurses in their country of origin, in addition to one year of experience as nurses in Canada or the United States.

Nurse applicants to the section 12.11.1.10: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Neonatology Nurse Practitioner (45 credits) program must have a minimum of two years' experience in neonatology in a level 3 unit. Ingram School of Nursing website

All applicants to the nursing Master's, Graduate Certificates, Graduate Diplomas and Ph.D. programs should consult the Ingram School of Nursing website for more information on admission requirements and application processes.

B.A./B.Sc. Applicants to the Master’s Program (Direct Entry – DE)

Applicants holding a general B.A. or B.Sc., including a number of prerequisite courses, may be admitted to a Qualifying year. A minimum CGPA (cumulative grade point average) of 3.0 (3.2 is strongly preferred) on a scale of 4.0 is required in order to be considered for entry. Upon successful completion of the Qualifying year, candidates must apply to the master’s program.
Direct-Entry applicants must complete their Qualifying year and the master’s program of study on a full-time basis, i.e., a total of three years. The School considers admissions to this program for the Fall term only.

**Note:** For further information about the required courses in the Qualifying year of the Direct-Entry program, please see the Nursing website.

Nurse Applicants (Nurse Bachelor’s Entry – NBE) to the Master’s Program - all concentrations

Applicants to the master’s degree must have completed a bachelor’s degree in nursing with a minimum CGPA of 3.0 on a scale of 4.0. This preparation must be comparable to that offered in the bachelor’s in nursing programs at McGill, which includes an Introductory Statistics course (3 credits). Prospective applicants whose undergraduate degree differs from the McGill degree are encouraged to contact the Ingram School of Nursing to have the eligibility of their degree assessed. Experience in nursing is strongly recommended.

Graduate Certificates and Graduate Diplomas in Nurse Practitioner

Applicants must hold a bachelor’s degree in nursing and a master’s degree in nursing comparable to McGill (the bachelor program must have a minimum of 66 credits including 12 credits in the biological sciences) with a minimum CGPA of 3.2 on a 4.0 scale required. Prior to entry, applicants are required to have a minimum of 3,360 hours of experience in Canada in the specialty area over the previous five years.

Students in the Nurse Practitioner program are required to hold a “carte de stage” allowing them to participate in the required clinical practicum at the end of the second year of the program. The “carte de stage” is granted by the Quebec Order of Nurses (Ordre des infirmières et infirmiers du Québec – OIIQ) to Nurse Practitioner candidates that are licensed in Quebec.

International students must therefore obtain current and full licensure from the OIIQ before submitting their application in uApply to the Neonatology, Primary Care, Mental Health, or Pediatrics programs. Please note in order to obtain a nursing license in Quebec, one must be proficient in the French language. For more information regarding the OIIQ licensure eligibility criteria, please contact the OIIQ at 514-935-2509.

All Nurse Practitioner programs deliver some courses in French, making proficiency in French a requirement for these programs as well.

Ph.D. Program

Applicants admitted to the doctoral program through McGill University must have completed master’s-level studies with either their undergraduate or graduate degree in nursing comparable to McGill (the bachelor program must have a minimum of 66 credits including 12 credits in the biological sciences) with a minimum CGPA of 3.3 on a 4.0 scale required. Prior to entry, applicants are required to have a minimum of 3,360 hours of experience in Canada in the specialty area over the previous five years.

The School considers admissions to the doctoral program for the Fall and Winter terms.

12.11.1.32 Registration and Regulations

Official registration through Minerva must be completed by **August 14**. Students registering late for reasons unrelated to the admission procedure are subject to the late payment fee.

Newly admitted students will receive information from the Graduate Nursing Student Affairs Office regarding any orientation sessions being scheduled for the fall. Students should contact their academic adviser for approval of complementary courses before the add/drop deadline.

All students (new admits and returning students) are responsible for ensuring that registration is completed according to the University timetable deadlines.

Course Requirements

Students are provided with the course objectives, requirements, and methods of evaluation at the beginning of each course. Students will not be permitted to write an examination in any course unless they have fulfilled the requirements, including attendance.

Clinical Requirements

Please visit [www.mcgill.ca/nursing/students/clinical](http://www.mcgill.ca/nursing/students/clinical) for further details. A table of these requirements and respective deadline dates is outlined on this page. The log in to the student portal to the site where you can upload your documents is also on this page.

University Success Workshop Series

Any student who is experiencing difficulty in meeting course requirements must take advantage of academic services that McGill offers. Information is available at [www.mcgill.ca/firstyear/undergraduate/your-first-year](http://www.mcgill.ca/firstyear/undergraduate/your-first-year). Further information on services available to students is at University Regulations & Resources > Graduate > Student Services and Information > section 1.7.3: Student Services – Downtown Campus.

Regulations Concerning Clinical Placement Courses

- Clinical courses must be taken sequentially as identified in the course of study for your concentration.
- Students must be registered with the OIIQ before they can have access to clinical placements. Students who have not completed the registration procedure cannot commence clinical studies.
- Students must have met the vaccination/immunization requirements prior to commencing clinical studies in September.
- Students are required to purchase equipment such as a stethoscope and physical-assessment equipment. Information is provided at registration or within specific courses.
- Students are expected to demonstrate professional behaviour at all times. The Code of Ethics for Nurses and the McGill University Code of Student Conduct (as outlined in the [www.mcgill.ca/students/rrr/academicrights](http://www.mcgill.ca/students/rrr/academicrights) and [www.mcgill.ca/secretariat/policies-and-regulations](http://www.mcgill.ca/secretariat/policies-and-regulations)) provide guidelines. Professional behaviour is expected in relation to classmates, teachers, patients, and the institutions within which studies take place.
- Professional behaviour is expected in relation to classmates, teachers, patients, the interprofessional team, and the institutions within which studies take place.
- In any formal documentation, students must identify themselves as a McGill Nursing Student with the respective year of study noted.
• Name badges must be worn at all times in clinical studies. These are ordered in the Fall semester of the first year of studies and the cost is charged directly to the student's fee account. Name badges are ordered through the Ingram School of Nursing and students will be required to purchase two sets of name badges in early Fall prior to starting clinical placement. Students must comply with the uniform policy during clinical placements.

• Students must have a photo I.D. taken at the MUHC for their clinical placements there.

• Attendance in clinical courses is mandatory and absences must be discussed with the instructor. Students with repeat absences may be asked to defer clinical studies if progress in the clinical course is compromised.

• Students whose performance in clinical studies does not meet the course objectives will be informed in writing and a learning plan will be developed. Students whose performance is below expectations or who are unsafe in clinical studies may be required to withdraw from the course at any time.

• Students whose academic performance is below expectation or considered to be incompetent or unsafe in clinical studies can be required to withdraw from the course at any time—in such cases the student will receive a grade of WF or F.

• While an effort is made to place students within reasonable travelling distance for clinical studies, each student must budget a sum of money to travel to and from a patient home and clinical institutions.

• Special requests for specific location or hours of clinical study cannot be accommodated.

• Students who are seropositive for Hepatitis B, C, or HIV and/or any other blood-borne pathogens have an obligation to notify their Program Director. These students are referred to the Blood-Borne Infection Risk Assessment Unit (Service d'évaluation des risques de transmission d'infection hématogènes [SERTIH]) of the Québec Institut national de santé publique responsable for all infected workers, including nursing students. The service will make recommendations regarding clinical placements based on the nature of the situation.

• Clinical courses that are offered during the Summer session may require that students study during the day or evening.

• Clinical agencies may require students entering their facility to undergo a Criminal Reference Check prior to being granted permission to enter their facility.

• For more information on clinical requirements, see www.mcgill.ca/nursing/students/clinical.

RN Licensure (Registration) to Practice

Graduates of an entry-to-practice program in nursing must seek licensure to practice on completion of the degree. The granting of a license to practice nursing and the right to be called a "Nurse – N" is a jurisdictional issue and varies from province to province within Canada, state to state in the United States, and country to country around the world.

NP Licensure (Registration) to Practice

Graduates of an entry practice program in nurse practitioner must seek licensure to practice as a nurse practitioner upon completion of the degree. The granting of a license to practice as a nurse practitioner and the right to be called a "Nurse Practitioner – NP" is a jurisdictional issue which the professional order of Nurses determines and assigns. In Quebec, the licensure exam for NPs is a joint exam with the OIIQ and the Collège des médecins du Québec.

12.11.1.3.3 Application Procedures

McGill's online application for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

For information on the application process as well as the supporting documents required in addition to the uApply online application, please visit the Nursing website, then search for your program of study.

12.11.13.3 Additional Requirements

The items and clarifications below are additional requirements set by this department:

• Students who have not completed their studies in North America may be asked to arrange for an interview as part of the application process.

• GRE (Graduate Record Examination) general test results may be required in individual circumstances.

12.11.1.3.4 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Ingram School of Nursing and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<th>Application Opening Dates</th>
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Application Deadlines

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Fall Term:
- Ph.D. Nursing

Winter Term:
- M.Sc.A. Nurse Bachelor Entry, part-time studies in all concentrations (except Global Health and Nurse Practitioner) must contact the Graduate Admissions Coordinator prior to applying
- Graduate Certificate – all programs

Winter Term:
- Ph.D. Nursing

Summer Term:
- Graduate Diploma – all programs

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

12.11.1.4 Nursing Faculty

**Vice-Principal (Health Affairs) and Dean of the Faculty of Medicine**
David H. Eidelman; M.D., C.M. (McG.), FRCPC, FACP

**Associate Dean (Medicine) and Director, Ingram School of Nursing**
Anita Gagnon; N., B.Sc.(N.) (Catholic Univ. of America), M.P.H. (Johns Hop.), Ph.D. (McG.)

**B.N. (Integrated) Program Director, Ingram School of Nursing**
Elaine Doucette; N., B.Sc.(C'dia), B.Sc.(N.), M.Sc.(N.) (Ott.)

**B.N. (Integrated) Assistant Program Director, Ingram School of Nursing**
Annie Chevrier; N., B.N.I., M.Sc.A. (McG.)

**B.Sc.(N.) Program Director, Ingram School of Nursing**
Madeleine Buck; N., B.Sc.(N.), M.Sc.A. (McG.)

**B.Sc.(N.) Assistant Program Director, Ingram School of Nursing**
Rosalia Sanzone; N., B.Sc.(N.), M.Sc.A. (McG.)

**Graduate Program Director, Ingram School of Nursing**
Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.) (Montr.)

**Assistant Graduate Program Director, Ingram School of Nursing**
Sylvie Lambert; N., B.Sc.(N.), Ph.D. (McG.), Post Doc. (Newcastle, Australia)

**Ph.D. Program Director, Ingram School of Nursing**
Sonia Semenic; N., B.A., M.Sc.A., Ph.D. (McG.), Post Doc. (Ott.)
**Assistant Ph.D. Program Director, Ingram School of Nursing**
Céline Gélinas; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(McG.)

**Associate Director of Research, Ingram School of Nursing**
Mélanie Lavoie-Tremblay; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(Tor.)

**Emeritus Professors**
Susan E. French; N., B.N.(McG.), M.S.(Boston), Ph.D.(Tor.), Ph.D.(McM.)
C. Céleste Johnston; N., B.N., M.S.(Boston), D.Ed.(McG.)
Judith Ann Ritchie; N., B.N.(New Br.), M.N., Ph.D.(Pitt.)

**Professors**
Franco Carnevale; N., B.Sc.(N.), M.Sc.A., M.Ed., Ph.D.(McG.), Ph.D.(Laval)
Anita J. Gagnon; N., B.Sc.(N.)(Catholic Univ. of America), M.P.H.(Johns Hop.), Ph.D.(McG.)
Laurie N. Gottlieb; N., B.N., M.Sc.A., Ph.D.(McG.) (*Shaw Professor of Nursing*)
Carmen G. Loiselle; N., B.Sc.(N.)(Montr.), M.S., Ph.D.(Wisc.-Madison)

**Associate Professors**
Nancy Feeley; N., B.Sc.(N.), M.Sc.A., Ph.D.(McG.)
Céline Gélinas; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(McG.)
Mélanie Lavoie-Tremblay; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(Tor.)
Christine Maheu; N., B.Sc.(N.), M.Sc.(Montr.), Ph.D.(INSERM), Post Doc.(Br. Col.)
Frederick Nestel; B.Sc.(McG.), M.Sc.(Qu.), Ph.D.(McG.)
Margaret Purden; N., B.Sc.(N.), Ph.D.(McG.)
Sonia Semenic; N., B.A., M.Sc.A., Ph.D.(McG.), Post Doc.(Ott.)

**Assistant Professors**
Madeleine M. Buck; N., B.Sc.(N.), M.Sc.A.(McG.)
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John Pringle; NP., M.Sc.(Epidemiology)(Qu.); Ph.D.(Tor.)
Argerie Tsimicalis; N., B.Sc.(N.)(Windsor), M.Sc.(Qu.), Ph.D.(Tor.), Post Doc.(Col.)

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Rosetta Antonacci; N., M.Sc.(Admin.)(Laval)
Cheryl Armistead; N., B.Sc.(N.), M.Sc.(N.)(Ott.)
Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.)(Montr.)
Annie Chevrier; N., B.N(I.), M.Sc.A.(McG.)
Maria Di Feo; N., B.Sc.(N.)(Montr.), M.Ed.(McG.)
Françoise Filion; N., B.Sc.(N.), M.Sc.(N.)(Montr.)
Diana Gausden; N., SCPhN(Southbank Univ., Lond.)
Melanie Gauthier; N., B.Sc.(N.)(McG.), M.N.(Syd.)
**Faculty Lecturers**

Sandie Larouche; N., B.Sc.(N.)(Laval), M.Sc.A.(McG.)
Caroline Marchionni; N., B.Sc.(McG.), M.Sc.(John M.), M.Sc.A.(McG.)
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Norma Ponzoni; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(c)(Montr.)
Rosalia Sanzone; N., B.Sc.(N.), M.Sc.A.(McG.)
Christine Marie Tillman; N., B.Sc.(N.)(Montr.), M.Sc.A.(McG.)
Jodi Tuck; N., B.Sc.(McM.), M.Sc.A.(McG.)

**Academic Associates**

Georgie Kamateros
Katherine Logue; N., B.Sc., M.Sc.A.(McG.)
Catherine Leblanc
Hugo Marchand; N., B.N.(I.)(McG.)
Elizabeth Marie Claire Murphy-Lavallée
Martyna Rembisz; N., B.Sc.(N.)(Ott.)
Amelie Samson; N., B.N.(I.)(Sher.)
Laurin Ann Vroom

**Contracted Faculty (part-time)**

Karine Allard
Jorge Manuel Antonio
William Archambault, B.Sc.(McG.), M.Sc.(Montr.)
Magdalena Arciszewska, B.Sc.(N.)(McG.)
Genevieve Barbo
Angela Barrett
Valerie Beaudoin
Amanda Berghello, B.Sc.(N.)(McG.)
Alain Biron; N., B.Sc.(McG.), M.Sc.(N.)(Montr.), Ph.D.(McG.)
Vasiliki Bitzas; N., B.Sc., M.Sc.(A.), Ph.D.(McG.)
Madalina Vasilica Boitor; N., B.N(I.)(McG.)
Sandra Bradford-Macalanda; N., B.Sc.(N.)(SUNY), M.N.(Athab.)
Theresa Broda; N., B.Sc.(N.)(McG.), B.Sc.(N.)(Ott.)
Frances Sol Encina Bruno; B.Sc.(N.), M.Sc.(A.)(McG.)
Susan Buddo; N., B.Sc.(N.)(Br. Col.), M.N.(Athab.)
Laurie Cleophat, M.Sc.(N.)(McG.)
Gomane Nerline Colimon; N., B.Sc.(N.)(McG.)
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Hedda Coronado; N., B.Sc.(N.)(Philippines)
Laura Craigie; N., B.N.(I.)(McG.)
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David Jordan Elbling
Olivia Hope Farias
Maria Fernandez
Monique Fillion, B.Sc.(N.)(Montr.), M.Sc.(A.)(Laval)
Lisa Frick; N., B.Sc.(N.)(Ott.)
Sae Fukamizu
Pascale Fulcher; N.
Alexandra Glezos
Mary Grossman-Schultz; N., B.Sc.(N.), M.Sc.A., Ph.D.(McG.)
Melissa Hoffman; N., B.Sc.(N.)(Br. Col.)
Vandra Holder
Sarah Ismail
Angela Izzo
Caroline Marie-France Jean
Charlie Myriam Julien; N., B.N., M.N.(Montr.)
Marisa Kanellopoulos
Daria Kapnik, M.Sc.L.(UQAM)
Julia Kinnon-Shaw; N., B.Sc.(N.), M.Sc.A.(McG.)
Manon Lacroix; N., B.Sc.(N.)(UQAT), M.Sc.(N.)(Ott.), DESS(Laur.)
Ariella Lang; N., B.Sc.(N.), M.Sc.(N.)(McG.), Ph.D.(Montr.), Post Doc.(Ott.)
Stéphanie Lao; N., B.Sc.(N.)(McG.)
Julie Laurence; N., B.Sc.(N.)(McG.)
Thi Hong Nhung Le
Valérie Renée LeBel; N., B.N.(Montr.)
Céline Léger; N.
Catherine Lloyd; N., B.Sc.(N.)(Ott.)
Abbey Leigh Mahon; B.A.(C'dia), M.Sc.(N.)(McG.)
Stephanie Mardakis; B.Sc.(N.)(Montr.), M.Sc.(N.)(McG.)
Sharon Mooney; N., B.A.(C'dia), B.Sc.(N.)(Br. Col.), M.A.(C'dia)
Thu Hong Nguyen Ngo
Catherine My-Duyen Nguyen-Huy
Tessa Nichols; N., B.Sc.(N.)(Ott.)
Trisha Andrea Nonog; N., B.N.(L)(McG.)
Cassandra Elaina Palangiewicz
Josette Perreault; N., B.N.(McG.)
Marta Anita Pilarska
Silvia Pistagnesi; N., B.Sc.(N.), M.Sc.A.(McG.)
Giselle Poirier
Christine Aiko Prchal; N., M.Sc.(A.)(McG.)
Bianca Quesnal-Spicer
Ramona Rodrigues; N., B.Sc., M.Sc.A.(McG.)
### Contracted Faculty (part-time)

- Patricia Sabbag; N., B.Sc.(N.), M.Sc.A.(McG.)
- Irene Sarasua; N., B.A.(Tor.), M.Sc.A.(McG.)
- Sanaz Shadvar
- Anita Sharma; N., B.A.(Manit.), B.Sc.(N.)(McG.)
- Sarah Jane Shea
- Heidi Sleno; B.Sc.(N.)(Ott.)
- Kim Tanguay
- Karine Troini
- Stephanie Welsh; N., B.Sc.(N.)(Ott.)
- Tracie Wai Yin Wong
- Vanessa Wrzesien; N., B.Sc.(N.), M.Sc.A.(McG.)
- Vera-Maria Zissis
- Nadia Zouari; N., B.N.(I.)(McG.)

### 12.11.1.4.1 Clinical and Affiliated Faculty Members

#### Professor
- Susan E. French

#### Associate Professors
- Lynne McVey, Frederick Peter Nestel, Janet Rennick, Edith Zorychta

#### Assistant Professors
- Alain Biron, Madeleine Boulay-Bolduc, Mark Daly, Linda Edgar, Lucia Fabijan, Valerie Frunchak, Mary Grossman, Andrea Liaberg, Ariella Lang, Virginia Lee, Diane E. Lowden, Ann Lynch, Anita Mehta, Michelle Nadon, Patricia O'Connor, Hélène Racine, Marie-Claire Richer, Christina Rosmus, Andreeanne Saucier, Charles Sounan

#### Faculty Lecturers

#### Adjunct Professors
- Bruce Gottlieb, Manon Lacroix, David Wright

#### Associate Members

#### Affiliate Members
- Joyce Marie Arsenault, Theresa Broda, Patrick Casey, Stephanie Charron, Nadia Andrée Doiron, Meggie Guinan, Tiffany Johnston, Donna Kindrat, Caroline Martel, Colette Masclle, Trisha Andrea Nonog, Caroline Normand, Emily Chang Orlov, Royal Orr, Brigitte Perrier, Lisa Marie Pichocvich, Grzegorz Sobieraj, Chantal Souligny, Karinne Troini, Chantale Viens, Barbara Ann Taughier, Teresa Testa
## 12.11.1.42 McGill Teaching Hospital Network

### McGill University Health Centre (MUHC)
- Glen Site
- Lachine Hospital
- Montreal General Hospital
- Montreal Neurological Institute

### CIUSSS de l'Ouest-de-l'île-de-Montréal
- Batshaw Youth and Family Centre
- CSSS de l'Ouest de l'île (CLSC Pierrefonds, CLSC Lac St-Louis, Lakeshore General Hospital)
- CSSS Dorval-Lachine-LaSalle (LaSalle Hospital, CLSC LaSalle, CLSC Dorval-Lachine)
- Douglas Mental Health University Institute
- St. Mary’s Hospital Centre
- West Montreal Readaptation Centre

### CIUSSS du Centre-Ouest-de-l'île-de-Montréal
- CSSS Cavendish (CLSC René Cassin, Henri-Bradet Day Center, Julius Richardson, Father Dowd Home, St. Andrew Centre d'Hébergement, Catherine Booth, GMF Queen Elizabeth, GMF Kildaire)
- CSSS de la Montagne (CLSC Côte des Neiges, CLSC Metro, CLSC Parc Extension)
- MAB-Mackay Rehabilitation Centre
- Maimonides Hospital Geriatric Centre
- Sir Mortimer B. Davis – Jewish General Hospital

### Other Teaching Centres
- Cambridge Residence
- Concordia University Health Clinic
- CSSS Bordeaux-Cartierville-St. Laurent
- CSSS Lucille-Teasdale
- CSSS Pointe de l'île
- CSSS St. Leonard-St. Michel
- CSSS Sud Ouest Verdun (CLSC St. Henri, CLSC Verdun, CLSC Ville Emard-Côte St. Paul, Hôpital Verdun)
- Jewish Rehabilitation Hospital
- Kateri Memorial Hospital
- Manoir Westmount
- Salvation Army Montclair Residence
- Shriner's Hospital for Children
- Tulattavik Health Centre Kuujjuaq
- Ukrainian Villa
- Vista Residence
- Waldorf Residence
- Welcome Hall Mission
- West Island Palliative Care Residence

### International Sites
A range of international placement sites is collated by the Clinical Placement Coordinators.
Directors of Nursing Research in Teaching Hospitals

MUHC – Andréeane Saucier

Jewish General Hospital – Margaret Purden

12.11.1.5 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Advanced Clinical Practice (48 credits)

This concentration is a two-year program. Part-time studies over three to five years are also an option for students. The core content of the Advanced Clinical Practice concentration prepares students for advanced practice nursing roles in diverse settings and with diverse populations. Content is organized based on the McGill Model of Nursing and focuses on such areas as family intervention, collaborative practice, and working with family strengths and resources. Through clinical courses, students engage in advanced clinical assessments and interventions and develop greater capacities to reflect purposefully and in-depth on their nursing practice. Students also develop knowledge of quantitative and qualitative research methods, engage in a systematic study of a clinically based nursing problem, and disseminate knowledge relevant to clinical practice.

Required Courses (39 credits)

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</tbody>
</table>

Complementary Courses (9 credits)

Any 500-level course or higher in consultation with the Adviser for this concentration.

12.11.1.6 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Direct Entry Nursing (58 credits)

The Master of Science, Applied; Nursing (Non-Thesis) - Direct Entry Nursing Concentration, established in 1974, remains the only one of its kind in Canada. This three-year program is tailored to the university graduate with a general degree and no previous preparation in nursing or other health care professions. Candidates complete entry-to-practice preparation in nursing while also completing graduate-level studies in nursing. Students must first successfully complete a 10-month, 41-credit Qualifying year (QY) of study before applying to the M.Sc.A. in Nursing; Non-Thesis - Direct-Entry Year I (29 credits) and Year II (26 credits). By the end of M.Sc.A. Year I, students are eligible to practice as nursing externs during the summer break, in accordance with the regulations of the Ordre des infirmières et infirmiers du Québec (OIIQ) (i.e., the Quebec Order of Nurses – the provincial licensing board). Upon completion of M.Sc.A. Year II, graduates are eligible to write the OIIQ exams.

Required Courses

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</table>
12.11.1.7 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health (48 credits)

This concentration prepares students for the challenges of working with diverse populations in limited-resource environments, while stressing the importance of understanding the inherent power dynamics, equity issues, and ethical dilemmas that arise through this work. It is based on a belief that we have much to learn from one another. The M.Sc.A.; Nursing (Non-Thesis) - Global Health provides students with global health content throughout their program of study, and students spend one semester taking clinical- and project-based courses in their final year in a global health placement site. This concentration is supported by the Global Health Committee of the Ingram School of Nursing. Students in the Direct Entry concentration that wish to complete Global Health Studies should apply to the Global Health Direct Entry concentration.

Required Courses (45 credits)

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<td>(3)</td>
<td>Seminar in Nursing 1</td>
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<td>(3)</td>
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<td>(3)</td>
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<td>(3)</td>
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<td>(3)</td>
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<td>(3)</td>
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<td>(3)</td>
<td>Clinical Project 1</td>
</tr>
<tr>
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<td>(3)</td>
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</table>

Complementary Course (3 credits)

Any 500 level course or higher in consultation with the Adviser for this concentration.

12.11.1.8 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health Direct Entry (58 credits)

This concentration sets out to prepare students for the challenges of working with diverse populations in limited resource environments with a philosophy stressing the importance of understanding the inherent power dynamics, equity issues, and ethical dilemmas that arise through this work. It is based on a belief that we have much to learn from one another. The M.Sc.A.; Nursing (Non-Thesis) - Global Health Direct Entry Concentration provides students with global health content throughout their program of study, and students spend one semester taking clinical- and project-based courses in their final year in a global health placement site. This concentration is supported by the Global Health Committee of the Ingram School of Nursing. 'Global Health Direct Entry' is the concentration label for bachelor-prepared non-nurse students who complete Global Health studies.

Required Courses

<table>
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<tr>
<th>Course Code</th>
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</table>
12.11.1.9 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Mental Health Nurse Practitioner (45 credits)

This program trains graduate-level nurses to take on an advanced practice role. Mental Health Nurse Practitioners assume responsibility for tasks related to physical assessment, clinical impressions, and treatment within legally sanctioned, pre-determined conditions that have traditionally been exclusive to medical practice.

Required Courses (45 credits)

NUR2 515 (3) Applied Statistics for Nursing
NUR2 608 (3) Seminar in Nursing 1
NUR2 611 (3) Seminar in Nursing 2
NUR2 612 (3) Research Methods in Nursing 1
NUR2 617 (3) Clinical in Family Systems Nursing 1
NUR2 618 (3) Clinical in Family Systems Nursing 2
NUR2 626 (3) Professional Issues in Nursing
NUR2 642 (3) Ethics in Advanced Practice
NUR2 647 (3) Pharmacology for Mental Health Nurse Practitioners
NUR2 690 (3) Reasoning in Mental Health 1
NUR2 691 (3) Reasoning in Mental Health 2
NUR2 692 (4) Reasoning in Mental Health 3
NUR2 693 (4) Reasoning in Mental Health 4
NUR2 694 (4) Reasoning in Mental Health 5

12.11.1.10 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Neonatology Nurse Practitioner (45 credits)

This concentration prepares a student for the multifaceted role of nurse practitioner in intermediate, acute, and critical care in neonatology. The nurse practitioner will acquire the necessary knowledge/understanding required to practice in a collaborative manner in providing services designed to deal with the health care needs and problems of neonates and their families in a variety of settings. The main focus is for the student to remember, understand, and...
apply critical thinking in all aspects of practice. The nurse practitioner is expected to function at various levels in educating families/co-workers, consultation, liaison, and managerial skills. These areas are addressed within the curriculum.

### Required Courses (45 credits)

<table>
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<th>Course Name</th>
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<td>Neonatal Health Assessment</td>
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12.11.1.11 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Education (50 credits)

***This program is currently closed for admissions.***

This concentration was developed to expose graduate-level nurses to instructional and learning theory, in order to better equip them to lead the movement towards more innovative and effective pedagogical approaches in training nurses working in health care establishments or nursing students in academic settings.

### Required Courses (40 credits)

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### Complementary Courses (10 credits)

- **(0-4 Credits)**
  - NUR2 624 (4) Clinical Laboratory in Nursing 2

- **(6-10 Credits)**
  - Any 500-level course or higher in consultation with the Adviser for this concentration.
### 12.11.1.12 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Services Administration (49 credits)

This concentration is offered to students to develop their capacity to assess the factors that affect and determine the nursing workforce. This will enable them to make strategic and effective decisions, and influence policy with regard to the planning and management of the nursing workforce.

**Required Courses (36 credits)**

<table>
<thead>
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**Complementary Courses (13 credits)**

(0-7 Credits)

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(6-13 Credits)

Any 500-level course or higher, including relevant School of Continuing Studies courses in the area of administration, in consultation with the Adviser for this concentration.

### 12.11.1.13 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Pediatric Nurse Practitioner (45 credits)

This program aims to train graduate-level nurses to take on an advanced practice role. Pediatric Nurse Practitioners assume responsibility for tasks related to physical assessment, clinical impressions, and treatment within legally sanctioned, pre-determined conditions that have traditionally been exclusive to medical practice. The Pediatric Nurse Practitioner concentration focuses on a secondary and tertiary of the pediatric population.

**Required Courses (45 credits)**

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</table>
12.11.1.14 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Primary Care Nurse Practitioner (45 credits)

This concentration was developed in order to train graduate-level nurses to take on this advanced practice role. Primary Care Nurse Practitioners assume responsibility for tasks related to physical assessment, diagnosis, and treatment within legally sanctioned, pre-determined conditions that have traditionally been exclusive to medical practice. The Primary Care Nurse Practitioner concentration focuses on a wide range of acute and chronic health concerns across the life span.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 515</td>
<td>3</td>
<td>Applied Statistics for Nursing</td>
</tr>
<tr>
<td>NUR2 608</td>
<td>3</td>
<td>Seminar in Nursing 1</td>
</tr>
<tr>
<td>NUR2 611</td>
<td>3</td>
<td>Seminar in Nursing 2</td>
</tr>
<tr>
<td>NUR2 612</td>
<td>3</td>
<td>Research Methods in Nursing 1</td>
</tr>
<tr>
<td>NUR2 617</td>
<td>3</td>
<td>Clinical in Family Systems Nursing 1</td>
</tr>
<tr>
<td>NUR2 618</td>
<td>3</td>
<td>Clinical in Family Systems Nursing 2</td>
</tr>
<tr>
<td>NUR2 626</td>
<td>3</td>
<td>Professional Issues in Nursing</td>
</tr>
<tr>
<td>NUR2 642</td>
<td>3</td>
<td>Ethics in Advanced Practice</td>
</tr>
<tr>
<td>NUR2 646</td>
<td>3</td>
<td>Pharmacology for Primary Care Nurse Practitioners</td>
</tr>
<tr>
<td>NUR2 670</td>
<td>3</td>
<td>Reasoning in Primary Care 1</td>
</tr>
<tr>
<td>NUR2 671</td>
<td>3</td>
<td>Reasoning in Primary Care 2</td>
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<td>NUR2 672</td>
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<td>Reasoning in Primary Care 3</td>
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<tr>
<td>NUR2 673</td>
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<td>Reasoning in Primary Care 4</td>
</tr>
<tr>
<td>NUR2 674</td>
<td>4</td>
<td>Reasoning in Primary Care 5</td>
</tr>
</tbody>
</table>

12.11.1.15 Graduate Certificate (Gr. Cert.) Theory in Mental Health (15 credits)

The Graduate Certificate in Theory in Mental Health prepares students to acquire the theoretical knowledge required to subsequently complete clinical courses in the Graduate Diploma in Mental Health Nurse Practitioner. This program is designed for students who previously completed a master's degree in nursing (equivalent to the McGill M.Sc.A in a nursing program) but have not completed any nurse practitioner theory or clinical courses. Students should complete 6-12 credits in preparatory theory courses prior to entry into the Graduate Certificate program (the specific number of preparatory courses required will depend on courses completed during their master's degree). Students should consult with the program Academic Adviser prior to applying.

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 647</td>
<td>3</td>
<td>Pharmacology for Mental Health Nurse Practitioners</td>
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<tr>
<td>NUR2 692</td>
<td>4</td>
<td>Reasoning in Mental Health 3</td>
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<td>NUR2 693</td>
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<td>Reasoning in Mental Health 4</td>
</tr>
<tr>
<td>NUR2 694</td>
<td>4</td>
<td>Reasoning in Mental Health 5</td>
</tr>
</tbody>
</table>

12.11.1.16 Graduate Certificate (Gr. Cert.) Theory in Neonatology (15 credits)

Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 660</td>
<td>6</td>
<td>Reasoning in Neonatology 1</td>
</tr>
<tr>
<td>NUR2 661</td>
<td>6</td>
<td>Reasoning in Neonatology 2</td>
</tr>
<tr>
<td>NUR2 664</td>
<td>3</td>
<td>Neonatal Health Assessment</td>
</tr>
</tbody>
</table>

12.11.1.17 Graduate Certificate (Gr. Cert.) Theory in Pediatrics (15 credits)

The Graduate Certificate in Theory in Pediatrics prepares students to acquire the theoretical knowledge required to subsequently complete clinical courses in the Graduate Diploma in Pediatric Nurse Practitioner. This program is designed for students who previously completed a master's degree in nursing.
(equivalent to the McGill M.Sc. in a nursing program) but have not completed any nurse practitioner theory or clinical courses. Students should complete 6-12 credits in preparatory theory courses prior to entry into the Graduate Certificate program (the specific number of preparatory courses required will depend on courses completed during their master's degree). Students should consult with the program Academic Adviser prior to applying.

**Required Courses (15 credits)**

NUR2 645 (3) Pharmacology for Pediatric Nurse Practitioners
NUR2 682 (4) Reasoning in Pediatrics 3
NUR2 683 (4) Reasoning in Pediatrics 4
NUR2 684 (4) Reasoning in Pediatrics 5

**12.11.1.18 Graduate Certificate (Gr. Cert.) Theory in Primary Care (15 credits)**

The Graduate Certificate in Theory in Primary Care prepares students to acquire the theoretical knowledge required to subsequently complete clinical courses in the Graduate Diploma in Primary Care. This program is designed for students who previously completed a master's degree in nursing (equivalent to the McGill M.Sc.(A) in nursing program) but have not completed any nurse practitioner theory or clinical courses. Students will need to complete 6-12 credits in preparatory theory courses prior to entry into the Graduate Certificate program (the specific number of preparatory courses required will depend on whether some of the required courses were completed in their master's degree). Students should consult with the program Academic Adviser prior to applying.

**Required Courses (15 credits)**

NUR2 646 (3) Pharmacology for Primary Care Nurse Practitioners
NUR2 672 (4) Reasoning in Primary Care 3
NUR2 673 (4) Reasoning in Primary Care 4
NUR2 674 (4) Reasoning in Primary Care 5

**12.11.1.19 Graduate Diploma (Gr. Dip.) Mental Health Nurse Practitioner (30 credits)**

Delineates a clinical course of study in mental health as a nurse practitioner, building on theoretical preparation in either a master's or a certificate program.

**Required Courses (30 credits)**

NUR2 655 (8) Mental Health Internship 1
NUR2 656 (14) Mental Health Internship 2
NUR2 695 (4) Reasoning in Mental Health 6
NUR2 696 (4) Reasoning in Mental Health 7

**12.11.1.20 Graduate Diploma (Gr. Dip.) Neonatal Nurse Practitioner (30 credits)**

Required Courses (30 credits)

NUR2 649 () Neonatology Internship 1
NUR2 650 (8) Neonatology Internship 2
NUR2 666 (6) Neonatal Follow-Up Internship

**12.11.1.21 Graduate Diploma (Gr. Dip.) Pediatric Nurse Practitioner (30 credits)**

Delineates a clinical course of study in mental health as a nurse practitioner, building on theoretical preparation in either a master's or a certificate program.

**Required Courses (30 credits)**

NUR2 653 (8) Pediatric Internship 1
NUR2 654 (14) Pediatric Internship 2
NUR2 685 (4) Reasoning in Pediatrics 6
NUR2 686 (4) Pediatric Assessment
12.11.1.22 Graduate Diploma (Gr. Dip.) Primary Care Nurse Practitioner (30 credits)
Delineates a clinical course of study in primary care as a nurse practitioner that builds on theoretical preparation in either a master's or certificate program.

**Required Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NUR2 651</td>
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<td>Primary Care Internship 1</td>
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<tr>
<td>NUR2 652</td>
<td>14</td>
<td>Primary Care Internship 2</td>
</tr>
<tr>
<td>NUR2 675</td>
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<td>Reasoning in Primary Care 6</td>
</tr>
<tr>
<td>NUR2 676</td>
<td>4</td>
<td>Primary Care Assessment</td>
</tr>
</tbody>
</table>

12.11.1.23 Doctor of Philosophy (Ph.D.) Nursing
A student who has obtained a master's degree at McGill University or at an approved institution elsewhere may, on the recommendation of the School, be registered in the second year of the Ph.D. program.

Each student's program is designed with the thesis supervisor taking into account the student's previous academic preparation, needs, and research interests.

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses (10 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>Comprehensive Examination</td>
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<tr>
<td>NUR2 702</td>
<td>3</td>
<td>Quantitative Research</td>
</tr>
<tr>
<td>NUR2 706</td>
<td>3</td>
<td>Qualitative Nursing Research</td>
</tr>
<tr>
<td>NUR2 730</td>
<td>3</td>
<td>Theory Development in Nursing</td>
</tr>
</tbody>
</table>

**Complementary Courses**
Selected courses at the 500 level or above.

Note: A minimum of 9 credits in advanced statistics, substantive, or complementary courses are planned with the thesis supervisor.

12.11.1.24 Doctor of Philosophy (Ph.D.) Nursing: Psychosocial Oncology
** This program is currently not offered **

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the P.S.O. coordinating committee.

**Thesis**
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 701</td>
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<td>Comprehensive Examination</td>
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<tr>
<td>NUR2 702</td>
<td>3</td>
<td>Quantitative Research</td>
</tr>
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<td>NUR2 703</td>
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<td>Issues of Measurement</td>
</tr>
<tr>
<td>NUR2 705</td>
<td>3</td>
<td>Palliative Care</td>
</tr>
<tr>
<td>NUR2 730</td>
<td>3</td>
<td>Theory Development in Nursing</td>
</tr>
<tr>
<td>NUR2 780</td>
<td>3</td>
<td>Advanced Nursing</td>
</tr>
<tr>
<td>NUR2 783</td>
<td>3</td>
<td>Psychosocial Oncology Research</td>
</tr>
</tbody>
</table>
Selected course(s) (Statistics)*

*Note: A minimum of 3 credits in advanced statistics.

Complementary Courses

One of the following courses:

- PSYC 507 (3) Emotions, Stress, and Illness
- PSYC 753 (3) Health Psychology Seminar 1
- SWRK 609 (3) Understanding Social Care
- SWRK 668 (3) Living with Illness, Loss and Bereavement

13 School of Physical and Occupational Therapy

13.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies

13.2 Graduate and Postdoctoral Studies

13.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu, B.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td>Robin Beech, B.Sc.(Nott.), Ph.D.(Edin.)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris V)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
</tr>
</tbody>
</table>

13.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.
13.2.3 Graduate and Postdoctoral Studies’ Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

13.3 Important Dates

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

13.4 Graduate Studies at a Glance

Please refer to University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

13.5 Program Requirements

Refer to University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates

13.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

13.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

13.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The Postdoctoral Research section of this publication contains important details required by postdoctoral scholars during their studies at McGill and should be periodically consulted, along with other sections and related publications.
13.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

13.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfill responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfill the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.
   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Committments of Postdoctoral Scholars and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.
   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).
   v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges
   i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.
   ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.
   iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.
   iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.
   v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.
   vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.
vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
• to provide feedback on research submitted by the Postdocs;
• to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
• to provide mentorship for career development;
• to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:

• to inform themselves of and adhere to the University’s policies and/or regulations for Postdocs for leaves, for research, and for student conduct as outlined at www.mcgill.ca/students/srr and the Graduate and Postdoctoral Studies University Regulations and Resources;
• to submit a complete file for registration to Enrolment Services;
• to sign and adhere to their Letter of Agreement for Postdoctoral Education;
• to communicate regularly with their supervisor;
• to inform their supervisor of their absences.

vii. Some examples of the responsibilities of the University are:

• to register Postdocs;
• to provide an appeal mechanism in cases of conflict;
• to provide documented policies and procedures to Postdocs;
• to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

13.8.3 Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

13.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).
Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under “Leave Policies and Form.”

13.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in the program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent or medical specialty training, but who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.

General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

13.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work
13.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

13.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

13.11.1 Physical and Occupational Therapy

13.11.1.1 Location

School of Physical and Occupational Therapy
3654 Promenade Sir-William-Osler
Montreal QC H3G 1Y5
Canada
Telephone: 514-398-4501
Fax: 514-398-6360
Email: see below
Website: www.mcgill.ca/spot

Directors

Director (Interim) and Associate Dean – Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)
Email: admincoord.spot@mcgill.ca

Associate Director – Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)
Email: admincoord.spot@mcgill.ca

Director’s Academic Associate – Sarah C. Marshall; B.Sc.(P.T.), M.Sc.(McG.)
Email: sarah.marshall@mcgill.ca

Program Director (Acting), Physical Therapy – Liliane Asseraf-Pasin; B.Sc.(P.T.), Ph.D.(McG.)
Email: profmasters.spot@mcgill.ca

Associate Program Director, Physical Therapy – Sabrina Figueiredo; B.Sc.(P.T.), M.Sc.(Rehab.Sc.), Ph.D.(Rehab.Sc.)(McG.)
Email: profmasters.spot@mcgill.ca

Program Director, Occupational Therapy – Sara Saunders; B.Sc.(O.T.), Ph.D.(McG.)
Directors

Email: profmasters.spot@mcgill.ca

Associate Program Director, Occupational Therapy – Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)

Email: profmasters.spot@mcgill.ca

Graduate Programs Director – Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab.Sc.)(McG.)

Email: graduate.rehabilitation@mcgill.ca

Graduate Programs Associate Director – Anouk Lamontagne; B.Sc., M.Sc., Ph.D.(Laval)

Email: graduate.rehabilitation@mcgill.ca

13.11.1.2 About Physical and Occupational Therapy

Part of McGill's Faculty of Medicine, we are proud of the outstanding academic environment that is offered to our students. The School of Physical and Occupational Therapy is situated on McGill University's upper campus in a gracious downtown area of the beautiful city of Montreal, Quebec.

The School offers master's and doctorate programs in three areas:

- Occupational Therapy
- Physical Therapy
- Rehabilitation Sciences

Two graduate certificate programs are also offered in Driving Rehabilitation and Chronic Pain Management.

The School is internationally recognized for the excellence of its contribution to research in rehabilitation. Excellence in research and teaching is the foundation and tradition of the School of Physical and Occupational Therapy at McGill University. The Faculty educates professionals and, through research, generates the body of knowledge that guides our professions to advance the health, function, and participation of the individual in society.

section 13.11.1.5: Master of Science (M.Sc.) Rehabilitation Science (Thesis) (45 credits)

The full curriculum consists of approximately two years of study for graduates who hold a B.Sc. degree in one of the medical rehabilitation disciplines or a related field. The program consists of required and elective coursework, a research proposal, and a research thesis.

section 13.11.1.6: Master of Science (M.Sc.) Rehabilitation Science (Non-Thesis) (45 credits)

The program requires three terms of full-time residence study and can usually be completed within three to four terms. It is designed for graduates who hold a B.Sc. (or equivalent) in Physical or Occupational Therapy or related health professions. Two years of clinical experience is recommended. The program trains health professionals to become consumers of research in order to promote evidence-based practice in rehabilitation science. The curriculum is made up of both required and elective courses and may also include a research project.

section 13.11.1.7: Master of Science, Applied (M.Sc.A.PT.) Physical Therapy (Non-Thesis) (60 credits)

The Master of Science, Applied, in Physical Therapy program is to be completed in 1.5 graduate years over five semesters, and includes four clinical practica of 1,050 hours in total, leading to professional licensure to practice. The educational approach is consistent with adult learning, self-directed learning, reflective clinical practice, and inter-professionalism. Strong links between academic and clinical fieldwork education are emphasized. Courses emphasize client-centred and evidence-based practice across the lifespan and health care continuum, and include health promotion from prevention of disability to rehabilitation. In addition to fieldwork, the program requirements include courses in advanced clinical practice, research methodology, and educational methodology. The master's project prepares the entry-to-practice physiotherapist to become an autonomous and effective professional through the acquisition of research skills. Entry to the Master of Science, Applied, in Physical Therapy is limited to internal candidates coming from the Bachelor of Rehabilitation Science (PT) and the Qualifying Year to the M.Sc.A. (PT).

section 13.11.1.8: Master of Science, Applied (M.Sc.A.OT.) Occupational Therapy (Non-Thesis) (62 credits)

The Master of Science (Applied) in Occupational Therapy program is to be completed in 1.5 graduate years over five semesters and includes a clinical practicum of 1,000 hours leading to professional licensure to practice. The educational approach is consistent with adult learning and reflective clinical practice. The curriculum uses a case-based, problem-solving, self-directed approach across the lifespan. Strong links between academic and clinical fieldwork education are emphasized throughout the educational process. Coursework will focus on client-centred and evidence-based practice, clinical reasoning, ethics, and professionalism as essential components for the development of a humanistic, ethical, knowledgeable, competent, critical thinking, and problem-solving Occupational Therapist. The master's project is designed to develop research and scholarly skills. Entry to the Master of Science, Applied, in Occupational Therapy is limited to internal candidates coming from the Bachelor of Rehabilitation Science (OT) and the Qualifying Year to the M.Sc.A. (OT).
section 13.11.1.9: Doctor of Philosophy (Ph.D.) Rehabilitation Science

This program consists of three to four years of study, on average, for graduates with master's-level training in one of the medical rehabilitation disciplines or a related field. The program consists of required and elective coursework, a comprehensive written examination, a research proposal, a doctoral thesis, and an oral defence.

section 13.11.1.10: Graduate Certificate (Gr. Cert.) Driving Rehabilitation (15 credits)

The 15-credit postgraduate certificate program aims to train Occupational Therapists to assess the driving abilities and performance of at-risk populations, retrain drivers, recommend adaptive vehicles and adapt technical aids that will allow disabled individuals to return to driving and preserve their independence and quality of life. The program comprises five courses. The first two are offered online; the other three are a combination of online and intensive workshops.

section 13.11.1.11: Graduate Certificate (Gr. Cert.) Chronic Pain Management (15 credits)

The 15-credit postgraduate certificate program aims to train healthcare professionals on the most recent and relevant approaches and technologies for the care and management of chronic pain with an interdisciplinary perspective. The program comprises four core courses offered online and one elective course, which can be online or a directed practicum.

13.11.1.3 Physical and Occupational Therapy Admission Requirements and Application Procedures

13.11.1.3.1 Admission Requirements

Language Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English, by appropriate exams, e.g.:

- **TOEFL** (Test of English as a Foreign Language) with a minimum score of 86 on the Internet-based test (iBT), with each component score not less than 20; or
- **IELTS** (International English Language Testing System) with a minimum overall band score of 6.5.

Note: McGill University's Institutional code for the TOEFL and GRE is 0935.

M.Sc. in Rehabilitation Science (Thesis)

1. A B.Sc. degree or equivalent in Physical or Occupational Therapy or a related field from a university of recognized reputation;
2. Evidence of high academic achievement, equivalent to a B standing, or a McGill CGPA of 3.0 (70–74%);
3. Prerequisite courses may be required in statistics, anatomy, physiology, psychology, sociology, neurophysiology, or other areas, depending on the student's anticipated specialization;
4. Applicants must meet the language requirements listed above;
5. A **GRE** (Graduate Records Examination) Test is recommended for the following applicants:
   - those who do not have a B.Sc. or equivalent from a Canadian university;
   - those who have been out of university for five years or more.

Only the GRE General Test is required.

Applicants must ensure that official test results are sent to McGill University directly by the testing service. Applications cannot be considered if test results are not available.

If a graduate student accepted into the M.Sc. program demonstrates superior performance in the first year, the Graduate Committee, in consultation with the thesis supervisor, may recommend waiving the M.Sc. thesis requirement, and allow the student to proceed directly to the Ph.D. program.

M.Sc. in Rehabilitation Science (Non-Thesis)

1 to 5 as above; plus two years of clinical experience is recommended.

Qualifying Year for Entry into M.Sc.A.(O.T.)

1. An undergraduate degree or equivalent in any subject from a university of recognized reputation;
2. Evidence of high academic achievement in one's undergraduate degree, equivalent to a B standing, or a McGill CGPA of 3.0 (70–74%) or higher -- the average accepted CGPA is 3.6;
3. No prerequisite courses; Completion of optional background courses is recommended;
4. Completion of the Canadian Professional Health Sciences CASPer Test (the CASPer test is administered by Altus Assessments);
5. Completion of all application components set out in the Occupational Therapy Qualifying Year Admissions Guide, found at [www.mcgill.ca/spot/admissions/professional-programs](http://www.mcgill.ca/spot/admissions/professional-programs).
6. Applicants must meet the language requirements listed above with the exception of the IELTS (International English Language Testing System). The minimum overall band score that is acceptable is 7.0;

7. Students will be required to interact with francophone patients during their clinical practica. Competence in spoken French is highly recommended.

Further information regarding the Qualifying Year is available at www.mcgill.ca/spot/admissions/professional-programs.

Qualifying Year for Entry into M.Sc.A. (P.T.)

1. An undergraduate degree or equivalent in any subject from a university of recognized reputation;
2. Evidence of high academic achievement in all undergraduate coursework, equivalent to a McGill CGPA of 3.2 or higher. As academic performance is heavily weighted in the admissions process, a CGPA of at least 3.4 is recommended;
3. At least three McGill-equivalent credits in Human Anatomy and at least three McGill-equivalent credits of Human or Mammalian Physiology, with a McGill-equivalent grade of B or higher, completed prior to the start of the Qualifying Year;
4. Completion of the Canadian Professional Health Sciences CASPer Test (the CASPer test is administered by Altus Assessments);
5. Completion of all application components set out in the Physiotherapy Qualifying Year Admissions Guide, found at www.mcgill.ca/spot/admissions/professional-programs;
6. Applicants must meet the language requirements listed above with the exception of the IELTS (International English Language Testing System). The minimum overall band score that is acceptable is 7.0;
7. Students will be required to interact with francophone patients during their clinical practica. Competence in spoken French is highly recommended.

Further information regarding the Qualifying Year is available at www.mcgill.ca/spot/admissions/professional-programs.

M.Sc.A. (O.T.)

This program is only open to McGill students who have successfully completed the B.Sc. (Rehabilitation Science) majoring in Occupational Therapy, or McGill students who have successfully completed the Qualifying Year to the M.Sc.A. Occupational Therapy.

M.Sc.A. (P.T.)

This program is only open to McGill students who have successfully completed the B.Sc. (Rehabilitation Science) majoring in Physical Therapy, or McGill students who have successfully completed the Qualifying Year to the M.Sc.A. Physical Therapy.

Ph.D. in Rehabilitation Science

1. An M.Sc. degree in a rehabilitation-related discipline from a university of recognized reputation;
2. Evidence of high academic achievement, equivalent to a B+ standing, or a McGill CGPA of 3.3 (75–79%) is required;
3. Applicants must meet the language requirements listed above;
4. A GRE (Graduate Records Examination) Test is recommended for the following applicants:
   - those who do not have a B.Sc., M.Sc., or equivalent from a Canadian university;
   - those who have been out of university for five years or more.

Applicants must ensure that official test results are sent to McGill University directly by the testing service. Applications cannot be considered if test results are not available.

Graduate Certificate in Driving Rehabilitation

1. A B.Sc. degree or equivalent in Occupational Therapy or a related field from a university of recognized reputation;
2. Evidence of high academic achievement, equivalent to a B standing or a McGill CGPA of 3.0 (70–74%);
3. See points 3, 4, and 5 under M.Sc. in Rehabilitation Science (Thesis) above for more information on prerequisites, TOEFL, and GRE.

Graduate Certificate in Chronic Pain Management

1. A B.Sc. degree or equivalent in a health-related discipline from a university of recognized reputation;
2. Evidence of high academic achievement, equivalent to a B standing or a McGill CGPA of 3.0 (70–74%);
3. See points 3, 4, and 5 under M.Sc. in Rehabilitation Science (Thesis) above for more information on prerequisites, TOEFL, and GRE.

13.11.1.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

13.11.1.32.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae
- GRE – recommended for M.Sc. in Rehabilitation Science (Thesis and Non-Thesis) and Ph.D. in Rehabilitation Science for applicants who do not have a B.Sc., or equivalent, from a Canadian university, or those who have been out of university for five years or more. Only the GRE General Test is required.
Two years of clinical experience – recommended for M.Sc. in Rehabilitation Science (Non-Thesis).

### 13.11.1.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Physical & Occupational Therapy and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

#### M.Sc.A.(O.T.), M.Sc.A.(P.T.), and Qualifying Year M.Sc.A.

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#### M.Sc. and Ph.D. Rehabilitation Science

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#### Graduate Certificate in Chronic Pain Management

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#### Graduate Certificate in Driving Rehabilitation

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**Note:** Applications for Winter term admission will not be considered (except for Graduate Certificate in Chronic Pain Management).
### 13.11.1.4 Physical and Occupational Therapy Faculty

Faculty profiles are available at [www.mcgill.ca/spot/people](http://www.mcgill.ca/spot/people).

#### Emeritus Professors

- Robert Dykes; B.A.(Calif.-LA), Ph.D.(Johns Hop.)
- Erika Gisel; B.A., B.Sc.(O.T.), M.Sc., Ph.D.(Temple)

#### Professors

- Hugues Barbeau; B.Sc.(P.T.), M.Sc., Ph.D.(Laval) *(on leave)*
- Mindy Levin; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)
- Annette Majnemer; B.Sc.(O.T.), M.Sc., Ph.D.(McG.)
- Nancy Mayo; B.Sc.(P.T.)(Qu.), M.Sc., Ph.D.(McG.)

#### Associate Professors

- Sara Ahmed; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)
- Dana Anaby; B.O.T., M.Sc.O.T.(Tel Aviv), Ph.D.(Br. Col.)
- Philippe Archambault; B.Sc.(O.T.)(McG.), M.Sc.A., Ph.D.(Montr.)
- Patricia Belchior da Cunha; B.S.(Law), B.S.(O.T.)*(Dom Bosco Catholic U.)*, Ph.D.(Flor.)
- Joyce Fung; B.Sc.(P.T.)*(Hong Kong Polytech. U.)*, Ph.D.(McG.)
- Isabelle Gagnon; B.Sc.(P.T.)(McG.), M.Sc., Ph.D.(Montr.)
- Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab.Sc.)(McG.)
- Matthew Hunt; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)
- Eva Kehayia; B.A., M.A., Ph.D.(McG.)
- Anouk Lamontagne; B.Sc., M.Sc., Ph.D.(Laval)
- Bernadette Nedelec; B.Sc.(O.T.), Ph.D.(Alta.)
- Melissa Park; B.A.(Yale), M.A.(O.T.), Ph.D.(USC)
- Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)
- Jadranka Spahija; B.Sc.(P.T.), Ph.D.(McG.)

#### Assistant Professors

- Stefanie Blain-Moraes; B.A.Sc., Ph.D.(Tor.)
- Marie-Hélène Boudrias; B.Sc.(P.T.)(Montr.), Ph.D.(Neuro.)(Kansas)
- Marie Brossard-Racine; B.Sc.(O.T.)(Montr.), M.Sc., Ph.D.(McG.)
- André Bussières; B.Sc.(Nursing)(Montr.), D.C., M.Sc.(UQTR)
- Tania Janaudis-Ferreira; B.Sc.(P.T.)*(Pontifical Cath. Univ. of Campinrus)*, M.Sc.(P.T.), Ph.D.(P.T.)(Umea)
- Raphael Lencucha; B.Sc.(Kinesiology)(Calg.), B.Sc.(O.T.)(Alta.), Ph.D.(Health Promo.)(W. Ont.)
- Shawn Robbins; B.Sc.(P.T.), M.Sc.(P.T.), Ph.D.(W. Ont.)
- Marc Roig Pull; M.Sc.(Nott.), Ph.D.(Br. Col.)
- Laurence Roy; B.Sc.(O.T.), M.Sc.(Rehab.), Ph.D.(Rehab.)(Montr.)
- Keiko Shikako-Thomas; B.Sc.(O.T.)(São Paulo), M.Sc.(Rehab.), Ph.D.(Rehab.)(McG.)
- Aliki Thomas; B.Sc.(O.T.), M.Ed., Ph.D.(McG.)
- Timothy Wideman; B.Sc.(P.T.), Ph.D.(Exp. Psych.)(McG.)

#### Associate Professors (Professional)

- Richard Preuss; B.Sc.(P.T.), M.Sc.(Wat.), Ph.D.(McG.)
### Associate Professors (Professional)

Caroline Storr; B.Sc.(O.T.), M.B.A.(C’dia)

### Assistant Professors (Professional)

Marie-Eve Bolduc; B.Sc.(O.T.), M.Sc.(McG.)
Noemi Dahan-Oliel; B.Sc.(O.T.), M.Sc.(O.T.), Ph.D.(O.T.)(McG.)
Sabrina Figuieiredo; M.Sc., Ph.D.(McG.)
Nancy Forget; B.Sc.(O.T.)(McG.), M.Sc.(Montr.)
Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)
Barbara Mazer; B.Sc.(O.T.)(Qu.), M.Sc., Ph.D.(McG.)
Anita Menon; B.Sc.(O.T.), M.Sc.(McG.), Ph.D.(Tor.)
Cynthia Perlman; B.Sc.(O.T.), M.Ed.(McG.)
Sara Saunders; B.Sc.(O.T.)(Dal.), Ph.D.(McG.)
Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)
Adriana Venturini; B.Sc.(P.T.), M.Sc.(McG.)
Hiba Zafran; B.Sc., B.Sc.(O.T.), M.Sc., Ph.D.(McG.)

### Faculty Lecturers

Liliane Asseraf-Pasin; B.Sc.(P.T.), M.Ed., Ph.D.(McG.)
Isabel Audette; B.Sc.(P.T.), M.Sc.(McG.)
Dana Benoit; B.Sc.(O.T.), M.Sc.(McG.)
Claudia Brown; B.Sc.(P.T.), M.Sc.(Rehab. Sc.) (McG.)
Crystal Garnett; B.A, M.Sc.(P.T.)(Qu.)
Heather Lambert; B.Sc.(O.T.), M.Sc., Ph.D.(McG.)
Isabelle Pearson; B.Sc.(P.T.), M.Sc.(McG.)
Claire Perez; B.Sc.(P.T.), B.Sc.(Bio.), M.Sc.(McG.)
Suzanne Rouleau; B.Sc.(O.T.)(Laval), M.Sc.(Montr.)
Barbara Shankland; B.Sc.(O.T.)(W. Ont), M.Sc.(Rehab.)(McG.)
Frangiska Xenopoulos; B.Sc.(P.T.)(McG.), M.A.(Clin.Sc.)(W. Ont.)

### Academic Associates

Sarah Marshall; B.Sc.(P.T.), M.Sc.(McG.)
Monica Slanik; B.Sc.(C’dia), B.Sc.(O.T.)(McG.)

### Faculty Lectureship (Nil Salary)

Michel Aboussaly; B.Sc.(P.T.)(McG.)
Tammy Abramovitch-Ostroof; B.Sc.(P.T.)(McG.)
Joana Alvarenga; B.Sc.(P.T.)(McG.)
Maria Ambrosio; B.Sc.(P.T.)(McG.)
Donald Balmforth; B.Sc.(P.T.)(McG.)
Diana Bastasi; B.Sc.(P.T.)(McG.), M.B.A.(McG.)
Melanie Bergthorson; M.Sc.(O.T.)(ATSU)
Mireille Boulos; B.Sc.(O.T.)(McG.)
Marie-Pierre Bourbonnais; B.Sc.(O.T.)(Montr.), M.Sc.(O.T.)(Sher.)
Zachary Boychuck; M.Sc.(A)(O.T.)(McG.)
Faculty Lectureship (Nil Salary)

Yulia Bronshteyn; B.Sc.(P.T.)(McG.)
Clara Carpintero; B.A.(O.T.), B.Sc.(O.T.)(Bogota), M.Ed.(McG.)
Kathleen Chassé; B.Sc.(P.T.)(McG.)
Katharina Ciobanete; B.Sc.(P.T.)(Nat. Acad. Phys. Edu. and Sport, Bucharest)
Elizabeth Dannenbaum; B.Sc.(P.T.)(McG.), M.Sc.(Rehab.)(McG.)
Vasiliki Darsaklis; B.Sc.(O.T.), M.Sc.(Rehab.)(McG.)
Lucie Denoncourt; B.Sc.(O.T.)(McG.)
Chandler Elie; B.Sc.(P.T.)(Montr.)
Andrij Ferguson; B.Sc.(P.T.)(McG.), M.Clin.(P.T.)(Curtin)
Andreea Florean; B.Sc.(P.T.)(McG.)
Erin Freedin; B.Sc.(C'dia), M.Sc.(O.T.)(Qu.)
Gabrielle Gaudreault-Malepart; B.Sc.(P.T.), M.Sc.(Sher.)
Lynn E. Gillespie; B.Sc.(P.T.)(Alta.), M.Sc.(Laval)
Ann Hetherington; B.Sc.(P.T.)(McG.)
Noëlla Ing; B.Sc.(O.T.)(McG.)
Chantal Jacques; B.Sc.(O.T.)
Nathalie Khoury; B.Sc.(O.T.)(McG.)
Anna Kirova; (P.T.)
Marie-Elaine Lafrance; B.Sc.(O.T.), M.Sc.(Rehab.)(McG.)
Howell Lin; B.Sc.(P.T.)(McG.), B.Sc.(Physio.)(McG.)
Kim Loo; B.Sc.(O.T.)(Ott.)
Janna MacLachlan; B.Sc.(Bio.)(Acad.), M.Sc.(O.T.)(W. Ont.)
Masoud Mehrzad; B.Sc.(O.T.)(Tehran), M.H.A.(Montr.)
Corinne Mercier; B.Sc.(Physio.)(Montr.)
Stéphanie Moncion; M.A.(Health Admin.)(Ott.), B.Sc.(O.T.)(Ott.)
Julia Newman; M.B.A.(C'dia), B.Sc.(O.T.)(McG.)
Amandeep Nandhra; B.Sc.(Kin.), M.Sc.A.(O.T.)(McG.)
Jacqueline Nguyen; B.Sc.(Rehab. O.T.)(McG.), M.Sc.A.(McG.)
Anne Nitschkie; B.Sc.(BioMed.), M.Sc.(Health Science)(Ott.)
Filomena Novello; B.Sc.(P.T.)(McG.), M.Sc.(Laval)
Rosamund Oxlade; B.F.A.(Qu.), M.Sc.(O.T.)(McG.)
Ada Pagnotta; B.Sc.(O.T.), M.Sc.(App.Rehab.)(McG.)
Michelle Plante; B.Sc.(O.T.)(McG.), M.Sc.(Biomed.)(Montr.)
Elise Rajotte; B.Sc.(P.T.)(Ott.)
Marla Rapoport; B.Sc.(P.T.)(McG.)
Chantal Renaud; B.Sc.(O.T.)(Montr.)
Jenne Saunders; M.Sc.(A)(O.T.)(McG.)
Ronna Schwartz; B.Sc.(O.T.)(McG.), M.A.(Human Systems)(C'dia)
Vandna Sethi; B.A.(Psych.)(C'dia), B.Sc.(O.T.)(Tor.), M.A.(Human Syst.)(C'dia)
Stephanie Steen; B.Sc.(P.T.)(McG.)
Emma Steven; B.Sc.(P.T.)(McG.)
Faculty Lectureship (Nil Salary)
Lily Teng; B.Sc.(O.T.), M.Sc.(Rehab.)(McG.)
Sena Thomas; B.Sc.(P.T.)(McG.), B.Sc.(Athletics)(C'dia)
Stephanie Tremblay; B.Sc.(O.T.), M.Sc.A.(O.T.)(McG.)
Julie Valiquette; B.Sc.(P.T.)(McG.)
Maria Vocos; B.Sc.(P.T.)(McG.)
Erin Walker; B.Sc.(O.T.)(McG.), B.Sc.(Exerc. Sc.)(C'dia)
Valerie Watters; B.Sc.(Nutri.)(McG.), B.Sc.(O.T.)(McG.), M.Sc.(O.T.)(McG.)
Tamara Windholz; B.Sc.(Anat. & Cell Biol.)(McG.), DPT(Boston)
Elizabeth Wynands; B.Sc.(O.T.)(McG.)
Mary (Yuqing) Zhao; B.Sc.(O.T.)(McG.), M.Sc.(Rehab.)(McG.)
Maximillian Zacchi; B.Sc.(P.T.)(McG.), M.Sc.(P.T.)(McG.)

Adjunct Professors and Associate Members
Nancy Alarie; B.Sc.(P.T.)(McG.)
Mayada Elsabbagh; B.Sc.(Psych.)(McG.), Ph.D.(Psych.)(UQAM)
Sharon Henry; B.Sc.(P.T.), Ph.D.(Ana. and Neurob.)(Vermont)
Walter Wittich; B.Sc., M.A.(C'dia), Ph.D.(McG.)

Affiliate Member
Maria Dritsa; B.A.(Psych.)(C'dia), M.Ed.(McG.), Ph.D.(Psych.)(UQAM)

13.11.1.5 Master of Science (M.Sc.) Rehabilitation Science (Thesis) (45 credits)

Thesis Courses (29 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 696</td>
<td>2</td>
<td>Thesis Research</td>
</tr>
<tr>
<td>POTH 697</td>
<td>6</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>POTH 698</td>
<td>9</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>POTH 699</td>
<td>12</td>
<td>Thesis Research 3</td>
</tr>
</tbody>
</table>

Required Courses (10 credits)
A research proposal is to be submitted in written form and defended in front of a supervisory committee. Research proposals should be completed by the beginning of the second full-time year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 610</td>
<td>4</td>
<td>Research Methodology</td>
</tr>
<tr>
<td>POTH 614</td>
<td>2</td>
<td>Selected Topics in Rehabilitation Science</td>
</tr>
<tr>
<td>POTH 616</td>
<td>1</td>
<td>Seminars in Rehabilitation Science</td>
</tr>
<tr>
<td>POTH 617</td>
<td>0</td>
<td>Rehabilitation Seminars 1</td>
</tr>
<tr>
<td>POTH 628</td>
<td>3</td>
<td>Introduction to Regression Analysis</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)
To be chosen from among graduate-level departmental course offerings that pertain to the student's area of specialization or other campus courses at the 500 or 600 levels with permission of the Graduate Program Director. Some courses may be offered alternate years only.

Note: Students may take either POTH 620 or POTH 630.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 603</td>
<td>3</td>
<td>Directed Practicum</td>
</tr>
<tr>
<td>POTH 604</td>
<td>3</td>
<td>Current Topics in Pediatrics</td>
</tr>
</tbody>
</table>
This program has two options. In the first option, students complete 30 credits of required and complementary courses plus a 15-credit research project in their area of interest. In the second option, students complete 45 credits of required and complementary coursework. The program normally takes three to four terms when done on a full-time basis.

**Required Courses (10 credits)**

- **EDPH 689** (3) Teaching and Learning in Higher Education
- **POTH 610** (4) Research Methodology
- **POTH 617** (0) Rehabilitation Seminars 1
- **POTH 619** (0) Rehabilitation Seminars 2
- **POTH 628** (3) Introduction to Regression Analysis

**Complementary Courses (35 credits)**

*Group A: 20 credits*

Chosen from the following courses offered by the School, or other campus courses at the 500 or 600 levels with permission of the Graduate Program Director. Some courses may be offered alternate years only.

Note: Students may take POTH 620 or POTH 630.

- **POTH 508** (3) Plasticity in Rehabilitation
- **POTH 603** (3) Directed Practicum
- **POTH 604** (3) Current Topics in Pediatrics
- **POTH 614** (2) Selected Topics in Rehabilitation Science
- **POTH 618** (3) Topics in Rehabilitation
- **POTH 620** (3) Measurement: Rehabilitation 1
- **POTH 630** (3) Measurement: Rehabilitation 2
- **POTH 631** (3) Research Proposal
- **POTH 673** (3) Screening for at Risk Drivers
- **POTH 674** (3) Assessing Driving Ability 1
- **POTH 675** (3) Driving Assessment Practicum
- **POTH 676** (3) Adaptive Equipment and Driving
- **POTH 677** (3) Retraining Driving Skills
- **POTH 682** (2) Promoting Healthy Activity
- **POTH 685** (3) Perception and Action

The above list of complementary courses is subject to change. Please refer to our course guide on the School's website.
Group B: 15 credits, one of the following options:

**Option 1, Directed Project:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 661</td>
<td>7</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>POTH 662</td>
<td>8</td>
<td>Research Project 2</td>
</tr>
</tbody>
</table>

Note: Registration for the above courses requires pre-approval by the Graduate Program Director.

OR

**Option 2, No Directed Project:**

15 credits of 500-, 600-, or 700-level courses.

### 13.11.1.7 Master of Science, Applied (M.Sc.A.PT.) Physical Therapy (Non-Thesis) (60 credits)

The Master of Science, Applied, in Physical Therapy is a 62-credit program to be completed in 1.5 graduate years over five semesters, and includes four clinical practica of 1,050 hours in total, leading to professional licensure to practice. The educational approach is consistent with adult learning, self-directed learning, reflective clinical practice, and inter-professionalism. Strong links between academic and clinical fieldwork education are emphasized. Courses emphasize client-centred and evidence-based practice across the lifespan and health care continuum, and include health promotion from prevention of disability to rehabilitation. In addition to fieldwork, the program requirements include courses in advanced clinical practice, research methodology, and educational methodology. The master's project prepares the entry-to-practice physiotherapist to become an autonomous and effective professional through the acquisition of research skills.

For additional information on courses taken during the Qualifying year, please refer to this website: [http://www.mcgill.ca/spot/programs/pt/curriculum](http://www.mcgill.ca/spot/programs/pt/curriculum).

Students admitted to the M.Sc.A. who have undergraduate degrees other than the B.Sc.(Rehabilitation Science); Major in Physical Therapy from McGill University will be required to complete a Qualifying year of study, prior to beginning the master's program.

#### Research Project (6 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 624</td>
<td>6</td>
<td>Master's Project</td>
</tr>
</tbody>
</table>

#### Required Courses (50 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHTH 571</td>
<td>7</td>
<td>PT Clinical Practicum 1</td>
</tr>
<tr>
<td>PHTH 572</td>
<td>7</td>
<td>PT Clinical Practicum 2</td>
</tr>
<tr>
<td>PHTH 573</td>
<td>8</td>
<td>PT Clinical Practicum 3</td>
</tr>
<tr>
<td>PHTH 606</td>
<td>2</td>
<td>Introduction to Pediatric Physical Therapy</td>
</tr>
<tr>
<td>PHTH 620</td>
<td>7</td>
<td>PT Clinical Practicum 4</td>
</tr>
<tr>
<td>PHTH 622</td>
<td>3</td>
<td>Integrated Pain Management</td>
</tr>
<tr>
<td>PHTH 623</td>
<td>4</td>
<td>Differential Diagnosis and Management</td>
</tr>
<tr>
<td>PHTH 652</td>
<td>3</td>
<td>Integrated Clinical Exercise Rehabilitation</td>
</tr>
<tr>
<td>POTH 602</td>
<td>3</td>
<td>Advanced Educational and Management Strategies</td>
</tr>
<tr>
<td>POTH 612</td>
<td>4</td>
<td>Applied Clinical Research Methods</td>
</tr>
<tr>
<td>POTH 682</td>
<td>2</td>
<td>Promoting Healthy Activity</td>
</tr>
</tbody>
</table>

#### Complementary Courses (6 credits)

6 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHTH 641</td>
<td>3</td>
<td>Topics in Cardiorespiratory Rehabilitation</td>
</tr>
<tr>
<td>PHTH 645</td>
<td>3</td>
<td>Pelvic Floor Rehabilitation</td>
</tr>
<tr>
<td>PHTH 661</td>
<td>3</td>
<td>Sport Physiotherapy</td>
</tr>
<tr>
<td>PHTH 662</td>
<td>3</td>
<td>Advanced Manual Therapy</td>
</tr>
</tbody>
</table>
POTH 508 (3) Plasticity in Rehabilitation
POTH 604 (3) Current Topics in Pediatrics
POTH 625D1* (1.5) Design of Assistive Technologies: Principles
POTH 625D2* (1.5) Design of Assistive Technologies: Principles
POTH 636 (3) Physical Therapy in Pediatrics
POTH 637 (3) Cancer Rehabilitation
POTH 639 (3) Motor Control
POTH 685 (3) Perception and Action

* Students must take both POTH 625D1 and 625D2

NOTE: Interprofessional Education Activities (IPEAs)

These required non-credit activities address the competencies for interprofessional practice across the health professions such as professional roles, communication, collaboration in patient-centered care, and conflict resolution. Students will be advised at the beginning of each term which activities they should register for.

13.11.1.8 Master of Science, Applied (M.Sc.A.OT.) Occupational Therapy (Non-Thesis) (62 credits)

The Master of Science, Applied, in Occupational Therapy is a 62-credit degree program to be completed in 1.5 graduate years over five semesters and includes a clinical practicum of 1,000 hours leading to professional licensure to practise. For additional information on courses taken during the Qualifying year, please refer to this website: http://www.mcgill.ca/spot/programs/occupational-therapy-program/curriculum.

Students admitted to the M.Sc.A. who have undergraduate degrees other than the B.Sc.(Rehabilitation Science); Major in Occupational Therapy from McGill University will be required to complete a Qualifying year of study, prior to beginning the master's program.

Research Project (6 credits)

POTH 624 (6) Master's Project

Required Courses (53 credits)

OCC1 501 (7) Clinical Practicum 1
OCC1 502 (7) Clinical Practicum 2
OCC1 503 (8) Clinical Practicum 3
OCC1 600J1 (0) Clinical Practicum Seminars
OCC1 600J2 (0) Clinical Practicum Seminars
OCC1 600J3 (0) Clinical Practicum Seminars
OCC1 602 (7) Clinical Practicum 4
OCC1 617 (6) Occupational Solutions 2
OCC1 618 (5) Applied OT: Psychosocial Theory
OCC1 620 (3) Work/Ergonomics
OCC1 622 (3) Community-Based OT
OCC1 623 (3) Assistive Technology
POTH 612 (4) Applied Clinical Research Methods

Complementary Courses (3 credits)

3 credits chosen from the following courses offered by the School. With permission from the Academic Director, students may take courses offered at the 500 or 600 levels by other departments at McGill.

OCC1 625 (3) Functional Environments
OCC1 626 (3) Mental Health: Child and Youth
POTH 614 (2) Selected Topics in Rehabilitation Science
POTH 625D1* (1.5) Design of Assistive Technologies: Principles
POTH 625D2* (1.5) Design of Assistive Technologies: Principles
POTH 627 (3) Advanced Topics in Dysphagia
POTH 632 (3) Research Elective
POTH 633 (3) Function/Activity in Arthritis
POTH 634 (3) Childhood Performance Issues
POTH 635 (3) Enabling Upper Extremity Function
POTH 636 (3) Physical Therapy in Pediatrics
POTH 637 (3) Cancer Rehabilitation
POTH 638 (3) Promoting Wellness of Seniors
POTH 640 (3) Role-Emerging Management

* Must take POTH 625D1 and POTH 625D2

NOTE: Interprofessional Education Activities (IPEAs)
These required non-credit activities address the competencies for interprofessional practice across the health professions such as professional roles, communication, collaboration in patient-centered care, and conflict resolution. Students will be advised at the beginning of each term which activities they should register for.

13.11.1.9 Doctor of Philosophy (Ph.D.) Rehabilitation Science

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)
Note: Of the required courses, at least three will already have been completed by students with an M.Sc. in Rehabilitation Science from McGill University.

EDPH 689 (3) Teaching and Learning in Higher Education
POTH 610 (4) Research Methodology
POTH 614 (2) Selected Topics in Rehabilitation Science
POTH 628 (3) Introduction to Regression Analysis
POTH 631 (3) Research Proposal
POTH 701 (0) Ph.D. Comprehensive

Complementary Course (3 credits)
One of the following courses:
POTH 620 (3) Measurement: Rehabilitation 1
POTH 630 (3) Measurement: Rehabilitation 2
POTH 685 (3) Perception and Action

Elective Courses (3-6 credits)
One or two courses (3 to 6 credits) that pertain to the student's area of specialization; to be chosen from among graduate-level departmental course offerings or other courses at the 500, 600, or 700 level with permission from the Graduate Program Director.

13.11.1.10 Graduate Certificate (Gr. Cert.) Driving Rehabilitation (15 credits)
For more information about online graduate certificates, including up-to-date information on course details and current professors contributing to the courses, see the McGill School of Physical and Occupational Therapy website at http://www.mcgill.ca/spot/programs/online-graduate-certificates/driving-certificate.
Required Courses (15 credits)

- POTH 673 (3) Screening for at Risk Drivers
- POTH 674 (3) Assessing Driving Ability 1
- POTH 675 (3) Driving Assessment Practicum
- POTH 676 (3) Adaptive Equipment and Driving
- POTH 677 (3) Retraining Driving Skills

Note: POTH 673 and 674 are offered online, whereas POTH 675, POTH 676, and POTH 677 have both online components and intensive workshops.

13.11.1.11 Graduate Certificate (Gr. Cert.) Chronic Pain Management (15 credits)

For more information about online graduate certificates including up-to-date information on course details and current professors contributing to the courses, see the McGill School of Physical and Occupational Therapy website at http://www.mcgill.ca/spot/programs/online-graduate-certificates/chronic-pain-management.

Required Courses (12 credits)

- POTH 663 (3) Pain Assessment in Clinical Practice
- POTH 664 (3) Neuroscience and Behavioural Perspectives of Pain
- POTH 665 (3) Interdisciplinary Management of Chronic Pain
- POTH 666 (3) Common Clinical Pain Syndromes

Complementary Courses (3 credits)

One of:

- POTH 603 (3) Directed Practicum
- POTH 618 (3) Topics in Rehabilitation

or another 500-level or higher course (online or not) from a different university, as approved by the Graduate Certificate Program Chair.

NOTE: POTH 603 and POTH 618 are not online courses. They are directed tutorial courses that need pre-approval from the Graduate Certificate Program Chair. Students are encouraged to plan such courses with the instructor at least one semester before intended enrolment. For a complementary course at a different university, consult university regulation and resources for further information on transfer credits prior to enrolment.

14 Faculty of Science

14.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 9,000 graduate students in over 400 programs. GPS is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website Resources for Your Success, which is a one-stop-shop for the many resources and support systems in place for you across the University.

I would like to wish you all the best in your studies at McGill. We are here to make sure that you have the best possible experience.

Josephine Nalbantoglu, Ph.D.
Dean, Graduate and Postdoctoral Studies
14.2 Graduate and Postdoctoral Studies

14.2.1 Administrative Officers

**Administrative Officers**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)</td>
<td>Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(La Roche-sur-Yon), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

14.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Website: [www.mcgill.ca/gps](http://www.mcgill.ca/gps)

**Note:** For inquiries regarding specific graduate programs, please contact the appropriate department.

14.2.3 Graduate and Postdoctoral Studies’ Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic excellence for graduate and postdoctoral education at McGill. GPS provides leadership and strategic direction across the university, in close collaboration with the academic and administrative units and the graduate and postdoctoral community.

14.3 Important Dates

For all dates relating to the academic year, consult [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

14.4 Graduate Studies at a Glance

Please refer to [University Regulations & Resources > Graduate > section 1.3: Graduate Studies at a Glance](http://www.mcgill.ca/regulations) for a list of all graduate departments and degrees currently being offered.

14.5 Program Requirements

Refer to [University Regulations & Resources > Graduate > Regulations > section 1.1.7: Program Requirements](http://www.mcgill.ca/regulations) for graduate program requirements for the following:

- Master's Degrees
- Doctoral Degrees
- Ad Personam Programs (Thesis Option Only)
- Coursework for Graduate Programs, Diplomas, and Certificates
14.6 Graduate Admissions and Application Procedures

Please refer to University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures for information on:

- Application for Admission
- Admission Requirements
- Application Procedures
- Competency in English

and other important information regarding admissions and application procedures for Graduate and Postdoctoral Studies.

14.7 Fellowships, Awards, and Assistantships

Please refer to University Regulations & Resources > Graduate > section 1.5: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

14.8 Postdoctoral Research

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

14.8.1 Postdocs

Postdocs are recent graduates with a Ph.D. or equivalent (i.e., Medical Specialist Diploma) engaged by a member of the University’s academic staff, including Adjunct Professors, to assist him/her in research.

Postdocs must be appointed by their department and registered with Enrolment Services in order to have access to University facilities (library, computer, etc.).

14.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of procedures, policies, and privileges (e.g., orientation sessions, handbooks, etc.), as well as mechanisms for addressing complaints. Academic units should ensure that their policies, procedures and privileges are consistent with these guidelines and the Charter of Students’ Rights. For their part, Postdocs are responsible for informing themselves of policies, procedures, and privileges.

1. Definition and Status
   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill’s academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration
   i. Postdocs must be registered annually with the University through Enrolment Services. Initial registration will require an original or notarized copy of the Ph.D. diploma. Registration will be limited to persons who fulfil the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.
   ii. Upon registration, the Postdoc will be eligible for a University identity card issued by Enrolment Services.

3. Appointment, Pay, Agreement of Conditions
   i. Appointments may not exceed your registration eligibility status.
   ii. In order to be registered as a Postdoc, you must be assured of financial support other than from personal means during your stay at McGill University, equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies. There are no provisions for paid parental leave unless this is stipulated in the regulations of a funding agency outside the University.
   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—Commitments of Postdoctoral Scholars...
and Supervisors—available at www.mcgill.ca/gps/postdocs/fellows/responsibilities). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see section 2.8.3: Vacation Policy for Graduate Students and Postdocs and University Regulations & Resources > Graduate > Regulations > Categories of Students > section 1.2.8: Leave of Absence Status). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

iv. Postdocs with full responsibility for teaching a course should be compensated over and above their fellowship at the standard rate paid to lecturers by their department. This applies to all postdocs, except those for whom teaching is part of the award (e.g., Mellon grantees).

v. The amount of research, teaching, or other tasks that Postdocs engage in over and above postdoctoral activities should conform to the regulations for Postdocs specified by the Canadian research council of their discipline. This applies to all Postdocs, including those whose funding does not come from the Canadian research councils.

4. Privileges

i. Postdocs have the same pertinent rights as the ones granted to McGill students under www.mcgill.ca/students/srr, and those granted by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Postdocs have full graduate student borrowing privileges in McGill libraries through their identity card.

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should be sought by submitting application documents directly to the appropriate program by the Postdoc. They must be admitted by the department offering the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs. They will be charged fees for these courses.

iv. Postdocs may be listed in the McGill directory. The Computing Centre will grant Postdocs email privileges on the same basis as graduate students upon presentation of a valid identity card.

v. The Department of Athletics will grant Postdocs access to sports facilities upon presentation of their identity card. A fee will be charged on an annual or term basis.

vi. Postdocs are mandatory members of the Post-Graduate Students’ Society (PGSS) and an annual association fee is automatically charged. PGSS fees are mandatory. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

vii. Postdocs are encouraged to participate in Professional Development Workshops provided by Graduate and Postdoctoral Studies and Teaching and Learning services. These sessions are usually free of charge.

viii. Postdocs have access to the services provided by the Ombudsperson.

ix. Postdocs may enrol as part-time students in the second language written and spoken English/French courses offered by the School of Continuing Studies/French Language Centre. Postdocs will be charged tuition for these courses. International Postdocs may be required to obtain a CAQ and a Study Permit.

x. Access to student services and athletic services are available to the Postdoc on an opt-in basis. Fees are applicable.

5. Responsibilities

i. Postdocs are subject to the responsibilities outlined at www.mcgill.ca/students/srr and must abide by the policies listed at www.mcgill.ca/secretariat/policies-and-regulations.

ii. Each academic unit hosting Postdocs should clearly identify Postdocs’ needs and the means by which they will be met by the unit.

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiting Postdocs.

iv. Some examples of responsibilities of the department are:

• to verify the Postdoc’s eligibility period for registration;
• to provide Postdocs with departmental policy and procedures that pertain to them;
• to oversee the registration and appointment of Postdocs;
• to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
• to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
• to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
• to include Postdocs in departmental career and placement opportunities;
• to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

• to uphold and transmit to their Postdocs the highest professional standards of research and/or scholarship;
• to provide research guidance;
• to meet regularly with their Postdocs;
• to provide feedback on research submitted by the Postdocs;
• to clarify expectations regarding intellectual property rights in accordance with the University’s policy;
• to provide mentorship for career development;
• to prepare, sign, and adhere to a Letter of Agreement for Postdoctoral Education.

vi. Some examples of responsibilities of Postdocs are:
14.8.3  Vacation Policy for Graduate Students and Postdocs

Graduate students and Postdocs should normally be entitled to vacation leave equivalent to university holidays and an additional total of fifteen (15) working days in the year. Funded students and Postdocs with fellowships and research grant stipends taking additional vacation leave may have their funding reduced accordingly.

Council of FGSR April 23, 1999

14.8.4  Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status).

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be extended. Students and Postdocs must make a request for such a leave in writing to their department and submit a medical certificate. The department shall forward the request to Enrolment Services. See the procedure in University Regulations & Resources > Graduate > section 1.2.8: Leave of Absence Status.

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record.

No tuition fees will be charged for the duration of the authorized leave. Research supervisors are not obligated to remunerate students and Postdocs on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at www.mcgill.ca/gps/funding/getting-paid under "Leave Policies and Form."

14.8.5  Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec’s definition of Postdoctoral Fellow, you may be eligible to attend McGill as a Postdoctoral Research Trainee. While at McGill, you can perform research only (you may not register for courses or engage in clinical practice). Medical specialists who will have clinical exposure and require a training card must register through Postgraduate Medical Education of the Faculty of Medicine—not Graduate and Postdoctoral Studies.

The category of Postdoctoral Research Trainee is for:

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but the degree/certification has not yet been awarded. The individual will subsequently be eligible for registration as a Postdoctoral Fellow.

Category 2: An individual who is not eligible for Postdoctoral Registration according to the Government of Quebec’s definition, but is a recipient of an external postdoctoral award from a recognized Canadian funding agency.

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in their program and stating the expected duration of the research stage. Individuals who are expecting to spend more than one year are encouraged to obtain formal training (master’s or Ph.D.) through application to a relevant graduate program.

Category 4: An individual with a regulated health professional degree (as defined under CIHR-eligible health profession), but not a Ph.D. or equivalent, or does not have clinical exposure and require a training card, who fulfills criteria for funding on a tri-council operating grant or by a CIHR fellowship (up to maximum of five years post-degree).

Note: Individuals who are not Canadian citizens or permanent residents must inquire about eligibility for a work permit.
General Conditions

- The maximum duration is three years
- The individual must be engaged in full-time research
- The individual must provide copies of official transcripts/diploma
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

14.9 Graduate Studies Guidelines and Policies

Refer to University Regulations & Resources > Graduate > section 1.2: Guidelines and Policies for information on the following:

- Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision
- Policy on Graduate Student Research Progress Tracking
- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

14.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to University Regulations & Resources > Graduate > section 1.6: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

14.11 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2018–2019 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

14.11.1 Atmospheric and Oceanic Sciences

14.11.1.1 Location

Department of Atmospheric and Oceanic Sciences
Burnside Hall
805 Sherbrooke Street West, Room 945
14.11.1.2 About Atmospheric and Oceanic Sciences

The Department of Atmospheric and Oceanic Sciences offers courses and research opportunities in atmospheric sciences and physical oceanography leading to the M.Sc. and Ph.D. degrees. Research programs borrow from fundamental fields such as mathematics, statistics, physics, chemistry, and computing to address a broad range of topics relating to weather and climate. Examples include:

- atmospheric chemistry;
- climate dynamics;
- cloud and precipitation physics;
- dynamical oceanography and meteorology;
- geophysical turbulence;
- numerical modelling;
- numerical weather prediction;
- ocean carbon budgets;
- sea ice dynamics;
- synoptic, mesoscale, and radar and satellite meteorology.

Some faculty members have close ties with other departments, schools, and centres, including the Chemistry, and Mathematics and Statistics Departments; the McGill School of Environment; ArcticNet; and Quebec Ocean. Facilities include the J. Stewart Marshall Radar Observatory, as well as state-of-the-art field and laboratory equipment for atmospheric chemistry. Graduate students have access to computers, ranging from desktop PCs to the massive parallel machines available to us through Compute Canada. In some cases, M.Sc. and Ph.D. research may include a field component. Most students also participate in national and international conferences.

Financial assistance in the form of research stipends and teaching assistantships is available for all qualified graduate students.

section 14.11.1.5: Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis) (45 credits)

Our program applies mathematics, physics, computing, and sometimes chemistry to study the atmosphere and/or oceans. The ideal student would therefore have a strong quantitative background in one or more of these fields. Although some of our students have undergraduate knowledge of meteorology or physical oceanography, such background is not necessary to succeed in the program. McGill offers the only program in Canada that includes both atmospheric and oceanic sciences. Students benefit from a large professor-to-student ratio, access to state-of-the-art computing, remote sensing, and atmospheric chemistry laboratory equipment. The Department also has close ties with Environment & Climate Change Canada's numerical weather prediction centre in Dorval, Quebec.

Most of our incoming M.Sc. students choose this (default) option. It allows considerable flexibility as to the choice of research topics, and gives students both a strong classroom knowledge of the subject as well as the opportunity to choose from a variety of thesis research projects. Students who do not choose to continue in academia find employment in a variety of areas and places; for example, working with Environment & Climate Change Canada as research associates or weather forecasters.

section 14.11.1.6: Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis): Environment (45 credits)

This program is currently not offered.

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking.

Students following the Environment option must first be accepted by the Department of Atmospheric and Oceanic Sciences, and then by the McGill School of Environment (MSE) before an offer of admission will be made by the University. Environment option students require either a single supervisor with a joint appointment in Atmospheric and Oceanic Sciences and the MSE, or co-supervisors, one each in Atmospheric and Oceanic Sciences and the MSE.

section 14.11.1.7: Doctor of Philosophy (Ph.D.) Atmospheric and Oceanic Sciences

Our program applies mathematics, physics, computing, and sometimes chemistry to study the atmosphere and/or oceans. The ideal student would therefore have a strong quantitative background in one or more of these fields. Although some of our students have undergraduate knowledge of meteorology or physical oceanography, such background is not necessary to succeed in the program. McGill offers the only program in Canada that includes both atmospheric and oceanic sciences. Students benefit from a large professor-to-student ratio, access to state-of-the-art computing, remote sensing, and atmospheric chemistry laboratory equipment. The Department also has close ties with Environment & Climate Change Canada's numerical weather prediction centre.
Doctor of Philosophy (Ph.D.) Atmospheric and Oceanic Sciences in Dorval, Quebec. Students who do not choose to continue in academia find employment in a variety of areas including research careers at government labs such as Environment & Climate Change Canada.

14.11.1.3 Atmospheric and Oceanic Sciences Admission Requirements and Application Procedures

14.11.1.3.1 Admission Requirements

Applicants to the M.Sc. program must meet the general requirements of Graduate and Postdoctoral Studies and hold a bachelor’s degree with high standing in atmospheric and oceanic science, physics, mathematics, engineering, or similar.

The normal requirement for admission to the Ph.D. program is a strong background in meteorology, physical oceanography, or related disciplines such as mathematics, physics, and engineering. Many students will have an M.Sc. degree in one of these fields, although this is not a formal requirement. Students without a master's degree in atmospheric science (meteorology) or physical oceanography will enter at the Ph.D. 1 rather than the Ph.D. 2 level, and devote the first year of the program mainly to coursework.

Inquiries should be addressed directly to the Student Affairs Coordinator, Department of Atmospheric and Oceanic Sciences; see the department's website for more information.

14.11.1.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

14.11.1.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Acceptance by a research supervisor – required for Ph.D. program

14.11.1.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Atmospheric and Oceanic Sciences and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Applicants</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Summer term admission will not be considered.

14.11.1.4 Atmospheric and Oceanic Sciences Faculty

Chair
J.R. Gyakum

Emeritus Professors
J.F. Derome; B.Sc., M.Sc.(McG.), Ph.D.(Mich.), F.R.S.C.
H.G. Leighton; B.Sc., M.Sc.(McG.), Ph.D.(Alta.)
L.A. Mysak; C.M., B.Sc.(Alta.), M.Sc.(Adel.), A.M., Ph.D.(Harv.), F.R.S.C. (Canada Steamship Lines Professor of Meteorology)
I. Zawadzki; B.Sc.(Buenos Aires), M.Sc., Ph.D.(McG.), F.R.S.C.
Professors

P. Ariya; B.Sc., Ph.D.(York) (*James McGill Professor* (joint appt. with Chemistry))

P. Bartello; B.Sc., M.Sc., Ph.D.(McG.)

J.R. Gyakum; B.Sc.(Penn. St.), M.Sc., Ph.D.(MIT)

M.K. Yau; S.B., S.M., Sc.D.(MIT) (*NSERC/Hydro-Québec Industrial Research Chair in Short-term Forecasting of Precipitation*)

Associate Professors

F. Fabry; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with McGill School of Environment)

Y. Huang; B.Sc., M.Sc.(Peking), Ph.D.(Princ.)

D. Kirshbaum; B.Sc.(Ill.), M.Sc.(Johns Hop.), Ph.D.(Wash.)

D. Straub; B.Sc., M.Sc.(SW Louisiana), Ph.D.(Wash.)

B. Tremblay; B.Sc., M.Sc.(Car.), Ph.D.(McG.)

Assistant Professors

C. Dufour; B.Eng.(ISITV, France), M.Sc.(Sud Toulon-Var), Ph.D.(Grenoble)

T. Merlis; B.Sc.(Col.), Ph.D.(Calif. Tech.)

T. Preston; B.Sc.(Tor.), M.Sc.(W. Ont.), Ph.D.(Br. Col.) (joint appt. with Chemistry)

A. Zuend; Ph.D.(ETH Zurich)

Adjunct Professors

L. Barrie; Ph.D.(Goethe)

G. Brunet; Ph.D.(McG.)

A.P. Dastoor; Ph.D.(Indian IT)

L. Fillion; Ph.D.(McG.)

P. Kollias; Ph.D.(Miami)

H. Lin; Ph.D.(McG.)

L.-P. Nadeau; Ph.D.(McG.)

14.11.1.5 Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis) (45 credits)

The M.Sc. degree requires a minimum of 45 credits, up to a maximum of 51 credits. The program includes from 9 to 27 credits of coursework (depending on the student's background).

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 691</td>
<td>(3)</td>
<td>Master's Thesis Literature Review</td>
</tr>
<tr>
<td>ATOC 692</td>
<td>(6)</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>ATOC 694</td>
<td>(3)</td>
<td>Master's Thesis Progress Report and Seminar</td>
</tr>
<tr>
<td>ATOC 699</td>
<td>(12)</td>
<td>Master's Thesis</td>
</tr>
</tbody>
</table>

Students registered in M.Sc. programs are expected to regularly attend both the student seminar series (ATO 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

**Complementary Courses (21 credits)**

Must complete or have completed the following courses or equivalent:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 512</td>
<td>(3)</td>
<td>Atmospheric and Oceanic Dynamics</td>
</tr>
<tr>
<td>ATOC 513</td>
<td>(3)</td>
<td>Waves and Stability</td>
</tr>
<tr>
<td>ATOC 515</td>
<td>(3)</td>
<td>Turbulence in Atmosphere and Oceans</td>
</tr>
</tbody>
</table>
ATOC 519* (3) Advances in Chemistry of Atmosphere
ATOC 521 (3) Cloud Physics
ATOC 525 (3) Atmospheric Radiation
ATOC 530 (3) Paleoclimatc Dynamics
ATOC 531 (3) Dynamics of Current Climates
ATOC 540 (3) Synoptic Meteorology 1
ATOC 541 (3) Synoptic Meteorology 2
ATOC 568 (3) Ocean Physics
ATOC 626 (3) Atmospheric/Oceanic Remote Sensing
ATOC 646 (3) Mesoscale Meteorology
CHEM 519* (3) Advances in Chemistry of Atmosphere

* Students may select either ATOC 519 or CHEM 519.

Or other courses at the 500 level or higher recommended by the Department's Graduate Program Director.

Students with a strong background in atmospheric or oceanic science, or a Diploma in Meteorology, will take at least the 7-credit minimum. Students with no previous background in atmospheric or oceanic science must take the 20-credit maximum.

14.11.1.6 Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis): Environment (45 credits)

** This program is currently not offered **

Thesis Courses (24 credits)

ATOC 691 (3) Master's Thesis Literature Review
ATOC 692 (6) Master's Thesis Research 1
ATOC 694 (3) Master's Thesis Progress Report and Seminar
ATOC 699 (12) Master's Thesis

Students registered in M.Sc. programs are expected to regularly attend both the student seminar series (ATOC 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Required Courses (6 credits)

ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3

Complementary Courses (15 credits)

12 credits of Departmental courses chosen from the following:

ATOC 512 (3) Atmospheric and Oceanic Dynamics
ATOC 513 (3) Waves and Stability
ATOC 515 (3) Turbulence in Atmosphere and Oceans
ATOC 519* (3) Advances in Chemistry of Atmosphere
ATOC 521 (3) Cloud Physics
ATOC 525 (3) Atmospheric Radiation
ATOC 530 (3) Paleoclimatc Dynamics
ATOC 531 (3) Dynamics of Current Climates
or another course at the 500 level or higher recommended by the Department's Graduate Program Director.

* Students may select either ATOC 519 or CHEM 519.

3 credits of MSE courses chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.1.7 Doctor of Philosophy (Ph.D.) Atmospheric and Oceanic Sciences

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

(1 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 700</td>
<td>1</td>
<td>Ph.D. Proposal Seminar</td>
</tr>
<tr>
<td>ATOC 701</td>
<td>0</td>
<td>Ph.D. Comprehensive (General)</td>
</tr>
</tbody>
</table>

Complementary Courses (7 credits)

Students are required to take ATOC 751D1 and ATOC 751D2 OR ATOC 752D1 and ATOC 752D2.

1 credit from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 751D1</td>
<td>(.5)</td>
<td>Seminar: Physical Meteorology</td>
</tr>
<tr>
<td>ATOC 751D2</td>
<td>(.5)</td>
<td>Seminar: Physical Meteorology</td>
</tr>
<tr>
<td>ATOC 752D1</td>
<td>(.5)</td>
<td>Atmospheric, Oceanic and Climate Dynamics</td>
</tr>
<tr>
<td>ATOC 752D2</td>
<td>(.5)</td>
<td>Atmospheric, Oceanic and Climate Dynamics</td>
</tr>
</tbody>
</table>

And 6 credits from the Department of Atmospheric and Oceanic Sciences, at the 500 or 600 level, as approved by the Graduate Program Director.

14.11.2 Biology

14.11.2.1 Location

Department of Biology
14.11.2.2 About Biology

The Department offers graduate training in many areas of biology with particular strengths in the following areas:

- Molecular Biology and Genetics
- Cell and Developmental Biology
- Ecology, Biodiversity, and Conservation
- Evolution
- Neurobiology
- Bioinformatics
- Plant Biology

In addition to the regular M.Sc. and Ph.D. programs, the Biology Department offers specialized programs, known as “concentrations,” in the areas of Neotropical Environment (NEO), Bioinformatics, and Environment.

Graduate programs leading to the M.Sc. and Ph.D. degrees are offered. Both are research-intensive degrees, and the emphasis in both programs is on development of the intellectual and technical skills necessary for independent research. The main component of both degrees is a thesis presenting results of this work and the student’s original contribution to scientific knowledge. Formal coursework, usually in the form of literature-based seminar courses, is minimal and typically completed within the first year. To complement their classroom and laboratory training, students regularly attend other seminar series and journal clubs and present their own work annually in a formal seminar.

In addition to working with world-class researchers, graduate students in Biology have access to top-notch research infrastructure. The recently renovated Stewart Biology Building and the newly constructed Bellini Life Sciences Complex are equipped with state-of-the-art equipment and facilities for sophisticated imaging, robotic, and genetic techniques, to name a few. These in-house capabilities are complemented by a wide range of field research facilities, which include:

- Gault Nature Reserve at Mont St. Hilaire (Quebec);
- Morgan Arboretum (Quebec);
- Huntsman Marine Science Centre (New Brunswick);
- Subarctic Research Station (Quebec);
- Bellairs Research Institute (Barbados);
- Smithsonian Tropical Research Institute (Panama);
- Limnology research station at the Wilder and Helen Penfield Nature Reserve on Lake Memphremagog (Quebec).

These resources are also extended by affiliation with other organizations such as the Redpath Museum, the Biotechnology Research Institute of the National Research Council of Canada, the Groupe Interuniversitaire de Recherches Océanographiques du Québec (GIROQ), the McGill Macdonald campus, the Montreal Neurological Institute and Hospital, the Jewish General Hospital, the Montreal Children's Hospital, the Royal Victoria Hospital, and the Glen site.

The Department specifies a minimum level of support for all graduate students. This amount is $15,900 per annum plus tuition fees. The required minimum duration of support is two years for the M.Sc. program, five years for a Ph.D. student entering as Ph.D. 1 (directly from a bachelor's degree), and four years for a Ph.D. student entering as Ph.D. 2 (after having completed a master's degree).

The graduate program of each student is established and regularly evaluated by a three-member supervisory committee appointed by the Graduate Training Committee and chaired by the student’s thesis supervisor.

section 14.11.2.5: Master of Science (M.Sc.) Biology (Thesis) (45 credits)

The typical graduate student in this program has a strong background knowledge in cell and molecular biology, biochemistry, organismal biology, ecology, developmental biology, and statistics, often with special strengths in the area of proposed study. Given the continuing trend toward interdisciplinary work, the program also accepts some students with a high scholastic standing who have completed a program in fields other than biology (medicine, engineering, chemistry, physics, etc.).

Alumni have gone on to pursue a wide range of careers. Many go on to pursue postdoctoral research and later assume faculty positions, while others work as researchers in industry, wildlife biologists, forensic technologists, or science policy advisers, to name a few.
section 14.11.2.6: Master of Science (M.Sc.) Biology (Thesis): Environment (48 credits)

The Environment graduate concentration offers students the opportunity to pursue environment-focused graduate research in the context of a range of different fields, including Anthropology, Atmospheric and Oceanic Sciences, Biology, Bioresource Engineering, Earth and Planetary Sciences, Entomology, Epidemiology, Experimental Medicine, Geography, Law, Microbiology, Plant Science, Parasitology, Philosophy, Renewable Resources, and Sociology. Through a program consisting of research, seminars, and two courses, this concentration adds a layer of interdisciplinarity that challenges students to develop and defend their research and think in a broader context. Students graduating from the M.Sc. or Ph.D. program under the Environment concentration will therefore be able to understand and critically analyze an environmental problem from several perspectives (e.g., social, cultural, scientific, technological, ethical, economic, political, legislative) and at a local, national, regional, and/or international scale. In addition, they will be able to explore and critically assess analytic and institutional approaches for alleviating the selected environmental problem, and to effectively communicate research findings to both specialist and lay audiences. Coordinated and administered through the McGill School of Environment (MSE), the Environment concentration is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interactions that will occur as they interact with students from a wide range of disciplines.

section 14.11.2.7: Master of Science (M.Sc.) Biology (Thesis): Neotropical Environment (48 credits)

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based concentration for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Participation in the MSE-Panama Symposium presentation in Montreal is also required. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 14.11.2.8: Master of Science (M.Sc.) Biology (Thesis): Bioinformatics (48 credits)

The goal of the Bioinformatics concentration is to train students to become researchers in the interdisciplinary field of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This work includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. The Bioinformatics graduate concentration consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field. The typical entering student will be affiliated with one of about fourteen different “home” departments in three different faculties, chosen based on his/her specific field of expertise, and will therefore meet the specific requirements for that department. The student will additionally be evaluated according to requirements specific to the Bioinformatics concentration. Students in this concentration will have access to five specialized courses that are open only to students within the Bioinformatics concentration. At the M.Sc. level, students successfully completing the Bioinformatics concentration will be fluent in the concepts, language, approaches, and limitations of the field.

section 14.11.2.9: Doctor of Philosophy (Ph.D.) Biology

The typical graduate student in this program has a strong background knowledge in cell and molecular biology, biochemistry, organisinal biology, ecology, developmental biology, and statistics, often with special strengths in the area of proposed study. Given the continuing trend toward interdisciplinary work, the program also accepts some students with a high scholastic standing who have completed a program in fields other than biology (medicine, engineering, chemistry, physics, etc.).

Alumni have gone on to pursue a wide range of careers. Many go on to pursue postdoctoral research and later assume faculty positions, while others work as researchers in industry, wildlife biologists, forensic technologists, or science policy advisers, to name a few.

section 14.11.2.10: Doctor of Philosophy (Ph.D.) Biology: Environment

The Environment graduate concentration offers students the opportunity to pursue environment-focused graduate research in the context of a range of different fields, including Anthropology, Atmospheric and Oceanic Sciences, Biology, Bioresource Engineering, Earth and Planetary Sciences, Entomology, Epidemiology, Experimental Medicine, Geography, Law, Microbiology, Plant Science, Parasitology, Philosophy, Renewable Resources, and Sociology. Through a program consisting of research, seminars, and two courses, this concentration adds a layer of interdisciplinarity that challenges students to develop and defend their research and think in a broader context. Students graduating from the M.Sc. or Ph.D. program under the Environment concentration will therefore be able to understand and critically analyze an environmental problem from several perspectives (e.g., social, cultural, scientific, technological, ethical, economic, political, legislative) and at a local, national, regional, and/or international scale. In addition, they will be able to explore and critically assess analytic and institutional approaches for alleviating the selected environmental problem, and to effectively communicate research findings to both specialist and lay audiences.

Coordinated and administered through the McGill School of Environment (MSE), the Environment concentration is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interactions that will occur as they interact with students from a wide range of different disciplines. This concentration is available from a variety of faculties and departments.
### section 14.11.2.11: Doctor of Philosophy (Ph.D.) Biology: Neotropical Environment

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based concentration for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program.

NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

### section 14.11.2.12: Doctor of Philosophy (Ph.D.) Biology: Bioinformatics

The goal of the Bioinformatics concentration is to train students to become researchers in the interdisciplinary field of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This work includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modeling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

The Bioinformatics graduate concentration consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field. The typical entering student will be affiliated with one of about fourteen different “home” departments in three different faculties, chosen based on his/her specific field of expertise, and will therefore meet the specific requirements for that department. The student will additionally be evaluated according to requirements specific to the Bioinformatics concentration. Students in this concentration will have access to five specialized courses that are open only to students within the Bioinformatics concentration. At the Ph.D. level students will be fluent in the concepts, language, approaches, and limitations of the field and will also have the capability of developing an independent bioinformatics research program.

### 14.11.2.3 Biology Admission Requirements and Application Procedures

#### 14.11.2.3.1 Admission Requirements

Applicants must have a B.Sc. in a discipline relevant to the proposed field of study with an overall cumulative grade point average (CGPA) of 3.0/4.0 or a CGPA of 3.2/4.0 for the last two full-time academic years. Graduate Record Examination (GRE) scores are not required, but may be submitted.

The Test of English as a Foreign Language (TOEFL) is required of applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone). A score of 86 on the TOEFL Internet-based test (iBT; 550 on the paper-based test (PBT)) with each component score not less than 20, or 6.5 on IELTS is the minimum standard for admission. Specific programs may have additional requirements.

Admission is based on an evaluation by the Graduate Training Committee and on acceptance by a research director who can provide adequate funding for personal and research expenses. Prospective graduate students are encouraged to contact faculty members with whom they wish to study before applying.

#### 14.11.2.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at [www.mcgill.ca/gradapplicants/apply](http://www.mcgill.ca/gradapplicants/apply). All applicants should read the academic faculty and admission procedure sections on the Biology Department website before completing the application form. These guidelines contain specific information on the application process, summaries of the research areas of staff, and contact information.

See [University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures](http://www.mcgill.ca/gradapplicants/apply) for detailed application procedures.

#### 14.11.2.3.3 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Acceptance by a research director who can provide adequate funding for personal and research expenses

### 14.11.2.3.4 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Biology Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [www.mcgill.ca/gps/contact/graduate-program](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All Applicants</strong></td>
<td><strong>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</strong></td>
</tr>
<tr>
<td><strong>Fall Term:</strong></td>
<td>Sept. 15</td>
</tr>
</tbody>
</table>
Application Opening Dates

<table>
<thead>
<tr>
<th>Application Deadlines</th>
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</thead>
<tbody>
<tr>
<td>Winter Term:</td>
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<tr>
<td>Aug. 15</td>
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<td>Oct. 15</td>
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<td>N/A</td>
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<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit. All inquiries pertaining to admission procedures should be directed to the Graduate Admissions Secretary.

**Note:** Applications for Summer term admission will not be considered.

### 14.11.2.4 Biology Faculty

**Chair**

Gregor Fussmann

**Graduate Program Director**

Frédéric Guichard

**Emeritus Professors**

Gregory G. Brown; B.Sc.(Notre Dame), Ph.D.(CUNY)

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)

Rajinder S. Dhindsa; B.Sc., M.Sc.(Punj.), Ph.D.(Wash.)

Jacob Kalf; M.S.A.(Tor.), Ph.D.(Ind.)

Donald L. Kramer; B.Sc.(Boston Coll.), Ph.D.(Br. Col.)

Martin J. Lechowicz; B.A.(Mich. St.), M.S., Ph.D.(Wisc.)

John B. Lewis; B.Sc., M.Sc., Ph.D.(McG.)

Barid B. Mukherjee; B.Sc., M.Sc.(Calc.), M.Sc.(Brigham Young), Ph.D.(Utah)

Gerald S. Pollack; M.A., Ph.D.(Princ.)

Ronald Poole; B.Sc., Ph.D.(Birm.)

Derek Roff; F.R.S.C.

Rolf Sattler

**Professors**

Ehab Abouheif; M.Sc.(C'dia), Ph.D.(Duke)

Graham A.C. Bell; B.A., D.Phil.(Oxf.), F.R.S.C. (*James McGill Professor* (on sabbatical))

Lauren Chapman; B.Sc.(Alta.), Ph.D.(McG.) (*Canada Research Chair in Respiratory Ecology and Aquatic Conservation*)

Gregor Fussmann; Dipl.(Berlin), Ph.D.(Max Planck)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.) (*Canada Research Chair in Biodiversity Science* (on sabbatical))

Frédéric Guichard; B.Sc.(Montr.), Ph.D.(Laval)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva) (*Strathcona Chair in Zoology; Robert Archibald & Catherine Louise Campbell Chair in Developmental Biology*)

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Redpath Museum*)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT) (*James McGill Professor* (*Associate Member in Anatomy and Cell Biology, the Goodman Cancer Centre*)

Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.)

Laura Nilson; B.A.(Colgate), Ph.D.(Yale)
### Professors

- Catherine Potvin; B.Sc., M.Sc.(Montr.), Ph.D.(Duke)
- Neil M. Price; B.Sc.(New Br.), Ph.D.(Br. Col.)
- Richard Roy; B.Sc.(Bishop's), Ph.D.(Laval) (*on sabbatical*)
- Daniel J. Schoen; B.Sc., M.Sc.(Mich.), Ph.D.(Calif.) (*Macdonald Professor of Botany*) (*on sabbatical*)

### Associate Professors

- Gary Brouhard; M.S.E., Ph.D.(Mich.) (*Associate Member in Physics*)
- Thomas E. Bureau; B.Sc.(Calif.), Ph.D.(Texas) (*on sabbatical*)
- Melania Cristescu; B.Sc., M.Sc.(Ovidius Univ. Constanta, Romania), Ph.D.(Guelph)
- David Dankort; B.Sc., Ph.D.(McM.)
- Joseph A. Dent; B.Sc.(Mich.), Ph.D.(Colo.)
- Irene Gregory-Eaves; B.Sc.(Vic., BC), M.Sc., Ph.D.(Qu.)
- Paul Harrison; B.Sc.(NUI), Ph.D.(Lond.)
- Brian Leung; B.Sc.(Br. Col.), Ph.D.(Car.)
- Nam-Sung Moon; B.Sc., Ph.D.(McG.)
- Simon Reader; B.A.(Colgate), Ph.D.(Yale)
- Jon Sakata; B.A.(Cornell), Ph.D.(Texas-Austin, Institute for Neuroscience) (*on sabbatical*)
- Frieder Schoeck; Dipl.(Erhangen), Ph.D.(Max Planck)
- Jacalyn Vogel; M.Sc.(E. Ill.), Ph.D.(Kansas)
- Alanna Watt; B.Sc.(C'dia), Ph.D.(Brandeis)
- Tamara Western; B.Sc.(Dal.), Ph.D.(Br. Col.) (*Associate Dean [Academic], Faculty of Science*)
- Sarah Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin) (*on sabbatical*)
- Monique Zetka; B.Sc., Ph.D.(Br. Col.)
- Hugo Zheng; M.Sc.(Helsinki), Ph.D.(Oxf. Brookes)

### Assistant Professors

- Mélanie Guigueno; M.Sc.(Manit.), Ph.D.(Western) (*beginning Jan. 2019*)
- Anna Hargreaves; B.Sc.(Trent), MSc.(Calg.), Ph.D.(Qu.)
- Arnold Hayer; M.Sc.(ESBS, France), Ph.D.(ETH Zurich)
- Michael Hendricks; B.A.(Bowdoin), Ph.D.(Sing.)
- Tomoko Ohyama; B.Sc., M.Sc.(Keio), Ph.D.(Baylor)
- Rodrigo Reyes Lamothe; Lic.(UNAM), M.Sc.(C'dia), D.Phil.(Oxf.)
- Jennifer Sunday; B.Sc.(Br. Col.), Ph.D.(Simon Fraser)
- Stephanie C. Weber; B.Sc.(Duke), Ph.D.(Stan.)

### Associate Members

- Anatomy and Cell Biology: Craig Mandato
- Biochemistry: Maxime Bouchard
- Centre for Research in Neuroscience: Sal Carbonetto, Yong Rao, Donald Van Meyel
- Environment: Colin Chapman
- Glen site: Hugh J. Clarke, Daniel Dufort, Teruko Taketo
- MCH: Rima Rozen
- Medical Genetics, Chair: David Rosenblatt
- MNI: Kenneth Hastings
Associate Members

Physics: Paul Francois

Redpath Museum: Rowan Barrett, David Green, Hans Larsson, Virginie Millien, Anthony Ricciardi

Adjunct Professors

BELUS Health Inc.: Francesco Bellini
Centre National de la Recherche Scientifique (CNRS): Michel Loreau
Humboldt Univ., Berlin: Rudiger Krahe
IRCM: Frederic Charron, David Hipfner
NRC Lab: Malcolm S. Whiteway
STRI: Andrew Altieri, Rachel Collin, Hector Guzman, Haris Lessios, William Owen McMillan, Mark Torchin

Univ. of British Columbia: Jonathan Davies
Univ. de Montréal: Pierre Drapeau

14.11.2.5 Master of Science (M.Sc.) Biology (Thesis) (45 credits)

Thesis Courses (39 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 697</td>
<td>13</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>BIOL 698</td>
<td>13</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>BIOL 699</td>
<td>13</td>
<td>Master's Thesis Research 3</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)

Two 3-credit courses, or equivalent, at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee.

14.11.2.6 Master of Science (M.Sc.) Biology (Thesis): Environment (48 credits)

Thesis Courses (39 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 697</td>
<td>13</td>
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</tr>
<tr>
<td>BIOL 698</td>
<td>13</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>BIOL 699</td>
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<td>Master's Thesis Research 3</td>
</tr>
</tbody>
</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>1</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>1</td>
<td>Environmental Seminar 2</td>
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<td>1</td>
<td>Environmental Seminar 3</td>
</tr>
</tbody>
</table>

Complementary Courses (3 credits)

3 credits, one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>3</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
</tbody>
</table>
ENVR 680 (3) Topics in Environment 4

or another graduate course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.2.7 Master of Science (M.Sc.) Biology (Thesis): Neotropical Environment (48 credits)
Participation in the MSE-Panama Symposium presentation in Montreal is also required.

**Thesis Courses (39 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>BIOL 697</td>
<td>(13)</td>
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<td>(13)</td>
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</tr>
<tr>
<td>BIOL 699</td>
<td>(13)</td>
<td>Master's Thesis Research 3</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>(3)</td>
<td>Tropical Biology and Conservation</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
</tbody>
</table>

**Elective Courses (3 credits)**

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

14.11.2.8 Master of Science (M.Sc.) Biology (Thesis): Bioinformatics (48 credits)

**Thesis Courses (39 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 697</td>
<td>(13)</td>
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<td>(13)</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>BIOL 699</td>
<td>(13)</td>
<td>Master's Thesis Research 3</td>
</tr>
</tbody>
</table>

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
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</table>

**Complementary Courses (6 credits)**

6 credits from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

14.11.2.9 Doctor of Philosophy (Ph.D.) Biology

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.
### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 700</td>
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<td>Doctoral Qualifying Examination</td>
</tr>
<tr>
<td>BIOL 702</td>
<td>6</td>
<td>Ph.D. Seminar</td>
</tr>
</tbody>
</table>

### Complementary Courses (6 credits)

Two 3-credit courses, or equivalent, at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee.

### 14.11.2.10 Doctor of Philosophy (Ph.D.) Biology: Environment

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BIOL 700</td>
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<td>Doctoral Qualifying Examination</td>
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<tr>
<td>BIOL 702</td>
<td>6</td>
<td>Ph.D. Seminar</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
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<tr>
<td>ENVR 652</td>
<td>1</td>
<td>Environmental Seminar 3</td>
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</tbody>
</table>

### Complementary Course (3 credits)

One course chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or another graduate course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

### 14.11.2.11 Doctor of Philosophy (Ph.D.) Biology: Neotropical Environment

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>3</td>
<td>Tropical Biology and Conservation</td>
</tr>
<tr>
<td>BIOL 700</td>
<td>0</td>
<td>Doctoral Qualifying Examination</td>
</tr>
<tr>
<td>BIOL 702</td>
<td>6</td>
<td>Ph.D. Seminar</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
</tbody>
</table>
Elective Courses (3 credits)
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

14.11.2 Doctor of Philosophy (Ph.D.) Biology: Bioinformatics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 700</td>
<td>0</td>
<td>Doctoral Qualifying Examination</td>
</tr>
<tr>
<td>BIOL 702</td>
<td>6</td>
<td>Ph.D. Seminar</td>
</tr>
<tr>
<td>COMP 616D1</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)
Two courses chosen from the following:

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>BINF 621</td>
<td>3</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>3</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>3</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>3</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>3</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

14.11.3 Chemistry

14.11.3.1 Location
Department of Chemistry
Otto Maass Chemistry Building
801 Sherbrooke Street West
Montreal QC H3A 0B8
Canada
Telephone: 514-398-6999
Fax: 514-398-3797
Email: graduate.chemistry@mcgill.ca
Website: www.mcgill.ca/chemistry

14.11.3.2 About Chemistry
Research in Chemistry
Members of the Department are organized into various research themes. Some of the current research interests are listed below, and are presented in much more detail on the Departmental website.

Analytical/Environmental
The Analytical/Environmental Thematic Research Group at McGill is involved in a wide range of exciting fundamental and applied research with focus on: state-of-the-art instrumental development in spectroscopy; imaging; chemometric and analytical bio-spectroscopy; artificial intelligence; ultra trace sampling; state-of-the-art atmospheric kinetics and photochemistry; thermochemical, box, and cloud modelling; as well as the development and application of state-of-the-art numerical models of the chemistry of the regional and global atmosphere. Our collective research has direct implications in fields such as materials, environmental, and biomedical chemistry.

Chemical Biology
The Chemical Biology Thematic Research Group is engaged in a diverse range of research topics, which span structural biology, enzymology, nucleic acid research, signalling pathways, single-molecule biophysics, and biophysical chemistry of living tissues. Among the themes that unite the research being performed in this group is the attempt to learn new chemistry and physics from biological systems.

We have projects relating to pharmaceutically relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

Chemical Physics

The research interests of the members of the Chemical Physics Thematic Research Group are diverse, with groups focusing on high-end laser and NMR spectroscopies, kinetics and modelling of atmospheric chemical reactions, experimental and theoretical biophysical chemistry, polymers at interfaces, and statistical and quantum mechanics. In the field of biophysical chemistry, single molecule spectroscopy is being used to probe enzyme function as well as DNA recombination and repair. Our recent advances in image correlation spectroscopic techniques now allow researchers to precisely follow the macromolecular dynamics in living cells. In a similar vein, breakthrough ultra-fast electron diffraction experiments have opened the window to real-time observation of the making and breaking of chemical bonds. State-of-the-art multi-pulse femtosecond spectroscopy experiments are being applied to interesting and technologically important new materials such as photonic crystals and quantum dot superlattices. A molecular-level picture of polymer dynamics and structure at surfaces and interfaces is being developed through theoretical modelling, high-field solids NMR spectroscopy, electron microscopy, and other surface characterization methods. In the area of atmospheric chemistry, the chemical transformation of the atmosphere is being modelled both experimentally and theoretically to understand how these processes are currently affecting and driving climate change. Finally, we have basic theory projects relating to the experimental work just described, as well as in transport and structure in complex colloidal or zeolite systems, protein dynamics, and fundamental issues in quantum and statistical mechanics.

Materials Chemistry

The chemistry of materials is a rapidly evolving domain of research. Materials chemistry seeks to understand how composition, reactivity, and structure are related to function from a molecular perspective. The functionality of materials is expressed in a variety of areas including photonics, micro- and nano-electronics, biosystems, nanotechnology, drug delivery, catalysis, polymer science, molecular biology, and chemical and biological sensing. Activities of the Materials Chemistry Thematic Research Group are often broadly interdisciplinary. University-wide synergies among members of this group have led to the creation of the McGill Institute for Advanced Materials (MIAM) and the McGill Nanotools Facility. The latter comprises state-of-the-art micro/nanofabrication, atomic manipulation and high-performance computing facilities. MIAM and members of the Chemistry Department have established research that links the Centre for Self-Assembled Chemical Structures, the Centre for Biorecognition and Biosensors, the Centre for the Physics of Materials, and the Centre for Bone and Periodontal Research. Synthetic approaches to new materials include research in dendrimers, polymeric acid architectures, polymers that conduct electrons or light and biopolymers. Polymer and colloid science figure prominently as does research and applications of the chemistry and physical properties of nanostructures. There is significant activity in understanding directed molecular assembly at interfaces and in the application of sophisticated spectroscopic tools to explore them.

Synthesis/Catalysis

The Synthesis/Catalysis Research Activity Group is a collective to develop the state-of-art catalysts, synthetic methodologies, reaction mechanisms, and synthetic routes for organic chemicals, natural products, and materials. The following are the major research activities at McGill: (1) Development of novel catalysts and catalytic reactions for highly efficient organic synthesis; Green Chemistry. This includes the study and discovery of novel transition-metal catalysts, biological catalysts, nano- and dendrimer-based catalysts for synthetic purposes; new chemical reactivity such as C-H activation, asymmetric catalysis and theory, multi-component reactions and combinatorial chemistry; innovative chemistry in alternative solvents such as water, sub-critical water, ionic liquids, and liquid CO2; photocatalytic reactions, reaction mechanisms, and physical organic chemistry; and computational chemistry. (2) Synthesis of biological compounds, organic materials, and natural products. Focus areas are total synthesis of natural products, synthesis of DNA and RNA analogues; synthesis of antiviral and anticancer nucleoside analogues, synthesis of amino acid and peptides; synthesis and study of carbohydrate derivatives; design, synthesis, and study of speciality organic chemical and materials.

section 14.11.3.5: Master of Science (M.Sc.) Chemistry (Thesis) (45 credits)

Please consult the Department for more information about this program.

section 14.11.3.6: Doctor of Philosophy (Ph.D.) Chemistry

Please consult the Department for more information about this program.

14.11.3.3 Chemistry Admission Requirements and Application Procedures

14.11.3.3.1 Admission Requirements

The minimum academic standard for admission to research thesis degree programs is a minimum standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a GPA of 3.2/4.0 for the last two full-time academic years. Applicants from other institutions should have an academic background equivalent to that of a McGill graduate in the Chemistry Honours/Major programs. If possible, candidates should specify the field of research in which they are interested.

14.11.3.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.
FINANCIAL ASSISTANCE
M.Sc. and Ph.D. Degrees

Graduate students devote 12 hours per week (contact hours, plus grading of reports, etc.) during the academic session to their teaching duties. Financial assistance during the remainder of the year is provided from research funds. Scholarship holders, such as NSERC or awards of similar value, receive a tuition fee waiver.

14.11.321 Additional Requirements

- GRE – may be required for international degrees

14.11.333 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Chemistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Summer term admission will not be considered.

All inquiries concerning graduate work in the Department should be addressed to the Director of Graduate Studies, Department of Chemistry.

14.11.34 Chemistry Faculty

Chair
M.J. Damha

Director of Graduate Studies
G. Cosa

Emeritus Professors

T.H. Chan; B.Sc.(Tor.), M.A., Ph.D.(Princ.), F.C.I.C., F.R.S.C.
A. Eisenberg; B.S.(Wor. Poly.), M.A., Ph.D.(Princ.), F.C.I.C.
B.C. Eu; B.Sc.(Seoul), Ph.D.(Brown)
D.G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), F.C.I.C.
E.D. Salin; B.Sc.(Calif.), Ph.D.(Ore.), F.C.I.C.
M.A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.), F.C.I.C.

Professors

M.P. Andrews; B.Sc., M.Sc., Ph.D.(Tor.)
P. Ariya; B.Sc., Ph.D.(York)
B.A. Arndtse; B.A.(Car.), Ph.D.(Stan.)
K. Auclair; B.Sc.(UQAC), Ph.D.(Alta.)
D.S. Bohle; B.A.(Reed), M.Phil., Ph.D.(Auck.)
I.S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C.
G. Cosa; B.Sc.(Argentina), Ph.D.(Ott.)
Professors
M.J. Damha; B.Sc., Ph.D.(McG.), F.C.I.C.
A. Kakkar; B.Sc., M.Sc.(Chan. U., India), Ph.D.(Wat.)
R.B. Lennox; B.Sc., M.Sc., Ph.D.(Tor.), F.C.I.C., F.R.S.C.
C.J. Li; B.Sc.(Zhengzhou), M.S.(Chin. Acad. Sci.), Ph.D.(McG.), F.R.S.C.
D. Perepichka; B.Sc.(Donetsk St. U, Ukraine), Ph.D.(Nat. Aca. Sci., Ukraine)
D.M. Ronis; B.Sc.(McG.), Ph.D.(MIT)
B.C. Sanctuary; B.Sc., Ph.D.(Br. Col.)
H. Sleiman; B.Sc.(A.U.B.), Ph.D.(Stan.)
Y.S. Tsantrizos; B.Sc., M.Sc., Ph.D.(McG.)
T.G.M. van de Ven; Kand. Doc.(Utrecht), Ph.D.(McG.)
P. Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.)

Associate Professors
C.J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)
A.S. Blum; B.A.(Princ.), Ph.D.(Wash.)
T. Friš i; B.Sc.(Zagreb), Ph.D.(Iowa)
J.L. Gleason; B.Sc.(McG.), Ph.D.(Virg.)
P. Kambhampati; B.A.(Car. Coll.), Ph.D.(Texas)
J. P. Lumb; B.Sc.(Cornell), Ph.D.(Calif., Berk.)
J. Mauzeroll; B.Sc.(McG.), Ph.D.(Texas-Austin)
A. Mittermaier; B.Sc.(Guelph), Ph.D.(Tor.)
N. Moitessier; M.Sc., Ph.D.(Nancy)
A. Moores; B.Sc., Ph.D.(École Polytechnique, Paris)
J.F. Power; B.Sc., Ph.D.(Cdia)
L. Reven; B.A.(Car.), Ph.D.(Ill.)
B. Siwick; B.A.Sc. Eng. Sci., M.Sc., Ph.D.(Tor.)

Assistant Professors
M. Harrington; B.A.(Delaware), Ph.D.(Calif., Santa Barbara)
R. Khaliullin; B.S.(INEOS RAS, Moscow), M.S.(Mendelev Univ., Moscow), Ph.D.(Calif., Berk.)
E. McCalla; B.Sc.(Mt. All.), M.Sc.(McG.), B.Ed.(Nfld.), Ph.D.(Dal.)
M. McKeague; B.Sc., Ph.D.(Car.)
T. Preston; B.Sc.(Tor.), M.Sc.(UWS), Ph.D.(Br. Col.)
C.J. Thibodeaux; B.Sc.(Louisiana St.), Ph.D.(Texas)

Adjunct Professors
N. Braidy, I. Wharf, R. Zamboni

14.11.3.5 Master of Science (M.Sc.) Chemistry (Thesis) (45 credits)

Thesis Courses
(24-31 credits)
At least 24 credits chosen from the following:
CHEM 691  (3)  M.Sc. Thesis Research 1  
CHEM 692  (6)  M.Sc. Thesis Research 2  
CHEM 693  (9)  M.Sc. Thesis Research 3  
CHEM 694  (12)  M.Sc. Thesis Research 4  
CHEM 695  (15)  M.Sc. Thesis Research 5  
CHEM 697  (9)  M.Sc. Thesis Research 7  
CHEM 698  (12)  M.Sc. Thesis Research 8  

Required Courses  
(5 credits)  
CHEM 650  (1)  Seminars in Chemistry 1  
CHEM 651  (1)  Seminars in Chemistry 2  
CHEM 688  (3)  Assessment  

Complementary Courses  
(9-16 credits)  
Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.  

14.11.3.6 Doctor of Philosophy (Ph.D.) Chemistry  
Thesis  
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.  

Required Courses  
CHEM 650  (1)  Seminars in Chemistry 1  
CHEM 651  (1)  Seminars in Chemistry 2  
CHEM 688  (3)  Assessment  
CHEM 701  (0)  Comprehensive Examination 1  
CHEM 702  (0)  Comprehensive Examination 2  

Complementary Courses  
Students entering the program with an M.Sc. degree will normally take three (3) graduate-level courses. Students entering without an M.Sc. degree will normally take five (5) graduate-level courses.  
Students may be required to take advanced undergraduate courses if background deficient.  

14.11.4 Computer Science  

14.11.4.1 Location  
School of Computer Science  
McConnell Engineering, Room 318  
3480 University Street  
Montreal QC H3A 0E9  
Canada  
Telephone: 514-398-7071, ext. 00074  
Fax: 514-398-3883
About Computer Science

The School of Computer Science is one of the leading teaching and research centres for computer science in Canada. We offer several M.Sc. programs and a Ph.D. program: all include coursework and research. In the basic M.Sc. programs, students must choose between the thesis option, and the non-thesis option, which requires a project. The Ph.D. program includes an option in bioinformatics, and the thesis M.Sc. program includes options in bioinformatics and in Computational Science and Engineering. Students are normally funded by their adviser's research grants; in the case of scholarship students, this typically takes the form of a 'top-up' to the scholarship. Research in the School covers a broad range of areas, including:

- **Theory**: algorithms, combinatorial optimization, computational geometry, cryptography, graph theory, logic and computation, programming languages, quantum computing, theory of computation, and scientific computing;
- **Systems**: compilers, computer games, distributed systems, embedded and real-time systems, modelling and simulations, networks, and software engineering;
- **Applications**: bioinformatics, machine learning, robotics, computer animation, graphics, and vision.

All students must consult the graduate program website, where up-to-date information about the graduate programs is posted. Any questions concerning programs should be addressed to the Graduate Program Coordinator.

section 14.11.4.5: Master of Science (M.Sc.) Computer Science (Thesis) (45 credits)

This program is designed for students with a strong interest in research in computer science who hold at least the equivalent of an undergraduate minor in CS. This program combines a strong course component with a research thesis. It is the usual (but not mandatory) entry point for students who wish to do a Ph.D., but is also the program of choice for students who want to find challenging and exciting jobs after their master's.

section 14.11.4.6: Master of Science (M.Sc.) Computer Science (Thesis): Bioinformatics (45 credits)

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

section 14.11.4.7: Master of Science (M.Sc.) Computer Science (Thesis): Computational Science & Engineering (45 credits)

This program option is to train graduates in state-of-the-art applications of numerical and modelling methods and computer technology to scientific and engineering problems. CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science.

section 14.11.4.8: Master of Science (M.Sc.) Computer Science (Non-Thesis) (45 credits)

This program is designed for students who want to obtain broad knowledge of advanced topics in computer science but without the requirement of a thesis. It offers an excellent preparation for the job market, but is not recommended for students interested in eventually pursuing a Ph.D.

section 14.11.4.9: Doctor of Philosophy (Ph.D.) Computer Science

The Ph.D. program trains students to become strong, independent researchers in the field of their choice. Our graduates take challenging positions in industry or take academic positions at universities and research labs. In order to apply to the Ph.D. program, applicants should normally hold a master's degree in Computer Science or a closely related area, from a well-recognized university, but exceptional students can be admitted to the Ph.D. program directly without a master's degree.

section 14.11.4.10: Doctor of Philosophy (Ph.D.) Computer Science: Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

14.11.4.3 Computer Science Admission Requirements and Application Procedures

14.11.4.3.1 Admission Requirements

Master’s (M.Sc.)

The minimum requirement for admission is a bachelor's degree (cumulative grade point average (CGPA) of 3.2 out of 4.0 or better, or equivalent) with the coursework in Computer Science as listed on our website.
The website supplements the information in this publication, and should be consulted by all graduate students.

Ph.D.

In order to apply to the Ph.D. program, applicants should hold an M.Sc. degree in Computer Science or a closely related area, from a well-recognized university. Students who hold a B.Sc. degree in Computer Science but have an exceptionally strong academic record may be admitted directly to the Ph.D. program, but they must initially apply to the M.Sc. program. Students who are in the M.Sc. program have the option to be fast-tracked into the Ph.D. program at the end of their first academic year, contingent on excellent performance as judged by the Ph.D. committee.

14.11.432 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

14.11.431 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Curriculum Vitae – required for both M.Sc. and Ph.D. programs
- Statement of Purpose – required for both M.Sc. and Ph.D. programs
- Graduate Record Examination (GRE General Test) – required for degrees from outside Canada. Optional for Ph.D. program.

14.11.433 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the School of Computer Science and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15*</td>
</tr>
<tr>
<td>(*Ph.D. only)</td>
<td></td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

For further details on our admission requirements, please visit our website at www.cs.mcgill.ca/academic/graduate/admission.

Scholarship Deadlines: January 1 for applicants who wish to be considered for scholarship awards; otherwise, March 1 for admission to the Fall term.

14.11.4.4 Computer Science Faculty

Director

B. Kemme

Emeritus Professors

D. Avis; B.Sc.(Wat.), Ph.D.(Stan.)
R. De Mori; Ph.D.(Politecnico Torino)
T.H. Merrett; B.Sc.(Qu.), D.Phil.(Oxf.)
M.M. Newborn; B.E.(Rensselaer Poly.), Ph.D.(Ohio St.), F.A.C.M.
C. Paige; B.Sc., B.Eng.(Syd.), Ph.D.(Lond.)
G.F.G. Ratzer; B.Sc.(Glas.), M.Sc.(McG.)
D. Thérien; B.Sc.(Montr.), M.Sc., Ph.D.(Wat.) (James McGill Professor)
G.T. Toussaint; B.Sc.(Tulsa), Ph.D.(Br. Col.)
## Post-Retirement

C. Tropper; B.Sc. (McG.), Ph.D. (Brooklyn Poly.)

## Professors

L. Devroye; M.S. (Louvain), Ph.D. (Texas) *(James McGill Professor)*

G. Dudek; B.Sc. (Qu.), M.Sc., Ph.D. (Tor.) *(James McGill Professor)*

L. Hendren; B.Sc., M.Sc. (Qu.), Ph.D. (Cornell), F.R.S.C. *(Canada Research Chair)*

X. Liu; B.Sc., M.Sc. (Tsinghua), Ph.D. (Ill.) *(William Dawson Scholar)*

P. Panangaden; M.Sc. (IIT, Kanpur), M.S. (Chic.), Ph.D. (Wisc.)

B. Reed; B.Sc., Ph.D. (McG.) *(Canada Research Chair)*


K. Siddiqi; B.Sc. (Lafayette), M.Sc., Ph.D. (Brown) *(William Dawson Chair)*

## Associate Professors

M. Blanchette; B.Sc., M.Sc. (Montr.), Ph.D. (Wash.)

X.W. Chang; B.Sc., M.Sc. (Nanjing), Ph.D. (McG.)

C. Crépeau; B.Sc., M.Sc. (Montr.), Ph.D. (MIT)

N. Friedman; B.A. (W. Ont.), Ph.D. (Tor.)

H. Hatami; B.Sc. (Sharif), M.Sc., Ph.D. (Tor.)

B. Kemme; B.Sc., M.Sc. (Erlangen-Nuremberg, Germany), Ph.D. (ETH, Zurich)

J. Kienzle; Eng.Dip., Ph.D. (Swiss Fed. IT)

P. Kry; B.Sc. (Wat.), M.Sc., Ph.D. (Br. Col.)

M. Langer; B.Sc. (McG.), M.Sc. (Tor.), Ph.D. (McG.)

M. Maheswaran; B.Sc. (U. Peradeniya), M.Sc., Ph.D. (Purdue)

B. Pientka; B.Sc., M.Sc. (Tech. U. of Darmstadt, Germany), Ph.D. (Carn. Mell)

J. Pineau; B.Sc. (Wat.), M.Sc., Ph.D. (Carn. Mell) *(William Dawson Scholar)*

D. Precup; B.Sc. (Tech. U. of Cluj-Napoca), M.Sc., Ph.D. (Mass.)

D. Ruths; B.Sc., M.Sc., Ph.D. (Rice)

C. Verbrugge; B.A. (Qu.), Ph.D. (McG.)

A. Vetta; B.Sc., M.Sc. (LSE), Ph.D. (MIT)

J. Waldispühl; B.Sc. (Nice Sophia Antipolis), M.Sc. (Paris VII), Ph.D. (École Poly., France)

## Assistant Professors

Y. Cai; B.S. (Peking), M.S., Ph.D. (MIT) *(William Dawson Scholar)*

J. Cheung; B.Sc. (Br. Col.), M.Sc., Ph.D. (Tor.)

D. Meger; B.Sc. (Br. Col.), M.Sc. (McG.), Ph.D. (Br. Col.)

## Faculty Lecturer

J. Vybihal; B.Sc., M.Sc. (McG.)

## Associate Members

D. Schlimm *(Philosophy)*

T.R. Shultz *(Psychology)*

## Adjunct Professors

A. Baretto, P.J. Mosterman, T. Perkins, I. Rekleitis, G.O. Sabidussi
14.11.4.5 Master of Science (M.Sc.) Computer Science (Thesis) (45 credits)

Thesis Courses (24 credits)

22 credits selected from:

- COMP 691 (3) Thesis Research 1
- COMP 696 (3) Thesis Research 2
- COMP 697 (4) Thesis Research 3
- COMP 698 (10) Thesis Research 4
- COMP 699 (12) Thesis Research 5

Required Course

- COMP 601 (2) Thesis Literature Review

Complementary Courses (21 credits)

At least 21 credits of 500-, 600-, or 700-level COMP courses, including at least 12 credits of 4-credit courses.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697.

14.11.4.6 Master of Science (M.Sc.) Computer Science (Thesis): Bioinformatics (45 credits)

Thesis Courses (24 credits)

22 credits selected from:

- COMP 691 (3) Thesis Research 1
- COMP 696 (3) Thesis Research 2
- COMP 697 (4) Thesis Research 3
- COMP 698 (10) Thesis Research 4
- COMP 699 (12) Thesis Research 5

Required Courses (3 credits)

- COMP 616D1 (1.5) Bioinformatics Seminar
- COMP 616D2 (1.5) Bioinformatics Seminar

Required Course

- COMP 601 (2) Thesis Literature Review

Complementary Courses (18 credits)

6 credits chosen from the following courses:

- BINF 621 (3) Bioinformatics: Molecular Biology
- BMDE 652 (3) Bioinformatics: Proteomics
- BTEC 555 (3) Structural Bioinformatics
- COMP 618 (3) Bioinformatics: Functional Genomics
- PHGY 603 (3) Systems Biology and Biophysics

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate’s supervisor.
Note: Students with an appropriate background can substitute 4 credits by COMP 697.

14.11.4.7 Master of Science (M.Sc.) Computer Science (Thesis): Computational Science & Engineering (45 credits)

**Thesis Courses (24 credits)**

24 credits selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 691</td>
<td>(3)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>COMP 696</td>
<td>(3)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>COMP 697</td>
<td>(4)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>COMP 698</td>
<td>(10)</td>
<td>Thesis Research 4</td>
</tr>
<tr>
<td>COMP 699</td>
<td>(12)</td>
<td>Thesis Research 5</td>
</tr>
</tbody>
</table>

**Required Courses**

One credit selected as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 669D1</td>
<td>(.5)</td>
<td>Computational Science Engineering Seminar</td>
</tr>
<tr>
<td>COMP 669D2</td>
<td>(.5)</td>
<td>Computational Science Engineering Seminar</td>
</tr>
</tbody>
</table>

and

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 601</td>
<td>(2)</td>
<td>Thesis Literature Review</td>
</tr>
</tbody>
</table>

**Complementary Courses**

(minimum 20 credits)

At least 6 courses whereby at least two courses must be from List A, at least two courses from List B, and the remaining credits to be chosen from graduate (500-, 600-, or 700-level) courses in the School of Computer Science. Two complementary courses must be taken outside the School of Computer Science.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697, but still need to take 6-8 credits from List A and 6-8 credits from List B.

**List A: Scientific Computing Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 602</td>
<td>(4)</td>
<td>Finite Element Analysis</td>
</tr>
<tr>
<td>COMP 522</td>
<td>(4)</td>
<td>Modelling and Simulation</td>
</tr>
<tr>
<td>COMP 540</td>
<td>(3)</td>
<td>Matrix Computations</td>
</tr>
<tr>
<td>COMP 566</td>
<td>(3)</td>
<td>Discrete Optimization 1</td>
</tr>
<tr>
<td>MATH 578</td>
<td>(4)</td>
<td>Numerical Analysis 1</td>
</tr>
<tr>
<td>MATH 579</td>
<td>(4)</td>
<td>Numerical Differential Equations</td>
</tr>
</tbody>
</table>

**List B: Application and Specialized Methods Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 512</td>
<td>(3)</td>
<td>Atmospheric and Oceanic Dynamics</td>
</tr>
<tr>
<td>ATOC 513</td>
<td>(3)</td>
<td>Waves and Stability</td>
</tr>
<tr>
<td>ATOC 515</td>
<td>(3)</td>
<td>Turbulence in Atmosphere and Oceans</td>
</tr>
<tr>
<td>CIVE 572</td>
<td>(3)</td>
<td>Computational Hydraulics</td>
</tr>
<tr>
<td>CIVE 603</td>
<td>(4)</td>
<td>Structural Dynamics</td>
</tr>
<tr>
<td>COMP 557</td>
<td>(3)</td>
<td>Fundamentals of Computer Graphics</td>
</tr>
<tr>
<td>COMP 558</td>
<td>(3)</td>
<td>Fundamentals of Computer Vision</td>
</tr>
<tr>
<td>COMP 567</td>
<td>(3)</td>
<td>Discrete Optimization 2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Name</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>COMP 621</td>
<td>4</td>
<td>Program Analysis and Transformations</td>
</tr>
<tr>
<td>COMP 642</td>
<td>4</td>
<td>Numerical Estimation Methods</td>
</tr>
<tr>
<td>COMP 767</td>
<td>4</td>
<td>Advanced Topics: Applications 2</td>
</tr>
<tr>
<td>ECSE 507</td>
<td>3</td>
<td>Optimization and Optimal Control</td>
</tr>
<tr>
<td>ECSE 532</td>
<td>3</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>ECSE 547</td>
<td>3</td>
<td>Finite Elements in Electrical Engineering</td>
</tr>
<tr>
<td>ECSE 549</td>
<td>3</td>
<td>Expert Systems in Electrical Design</td>
</tr>
<tr>
<td>MATH 555</td>
<td>4</td>
<td>Fluid Dynamics</td>
</tr>
<tr>
<td>MATH 560</td>
<td>4</td>
<td>Optimization</td>
</tr>
<tr>
<td>MATH 761</td>
<td>4</td>
<td>Advanced Topics in Applied Mathematics 1</td>
</tr>
<tr>
<td>MECH 533</td>
<td>3</td>
<td>Subsonic Aerodynamics</td>
</tr>
<tr>
<td>MECH 537</td>
<td>3</td>
<td>High-Speed Aerodynamics</td>
</tr>
<tr>
<td>MECH 538</td>
<td>3</td>
<td>Unsteady Aerodynamics</td>
</tr>
<tr>
<td>MECH 539</td>
<td>3</td>
<td>Computational Aerodynamics</td>
</tr>
<tr>
<td>MECH 541</td>
<td>3</td>
<td>Kinematic Synthesis</td>
</tr>
<tr>
<td>MECH 572</td>
<td>3</td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td>MECH 573</td>
<td>3</td>
<td>Mechanics of Robotic Systems</td>
</tr>
<tr>
<td>MECH 577</td>
<td>3</td>
<td>Optimum Design</td>
</tr>
<tr>
<td>MECH 610</td>
<td>4</td>
<td>Fundamentals of Fluid Dynamics</td>
</tr>
<tr>
<td>MECH 620</td>
<td>4</td>
<td>Advanced Computational Aerodynamics</td>
</tr>
<tr>
<td>MECH 632</td>
<td>4</td>
<td>Advanced Mechanics of Materials</td>
</tr>
<tr>
<td>MECH 642</td>
<td>4</td>
<td>Advanced Dynamics</td>
</tr>
<tr>
<td>MECH 650</td>
<td>4</td>
<td>Fundamentals of Heat Transfer</td>
</tr>
<tr>
<td>MECH 654</td>
<td>4</td>
<td>Compt. Fluid Flow and Heat Transfer</td>
</tr>
</tbody>
</table>

14.11.4.8 Master of Science (M.Sc.) Computer Science (Non-Thesis) (45 credits)

**Research Project (15 credits)**

15 credits selected as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 693</td>
<td>3</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>COMP 694</td>
<td>6</td>
<td>Research Project 2</td>
</tr>
<tr>
<td>COMP 695</td>
<td>6</td>
<td>Research Project 3</td>
</tr>
</tbody>
</table>

**Complementary Courses (30 credits)**

30 credits (nine courses), of which 12 credits must be of 4-credit courses at the 500, 600, or 700 level of COMP courses.

14.11.4.9 Doctor of Philosophy (Ph.D.) Computer Science

Required coursework: Students must take eight graduate courses, of which at least five are computer science courses. These courses should be chosen by the student in consultation with the supervisor (or co-supervisor) and the Progress Committee.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.
## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 700</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>COMP 701</td>
<td>(3)</td>
<td>Thesis Proposal and Area Examination</td>
</tr>
</tbody>
</table>

## Complementary Courses

18-24 credits selected from:

### Category A: Theory and Applications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 523</td>
<td>(3)</td>
<td>Language-based Security</td>
</tr>
<tr>
<td>COMP 524</td>
<td>(3)</td>
<td>Theoretical Foundations of Programming Languages</td>
</tr>
<tr>
<td>COMP 525</td>
<td>(3)</td>
<td>Formal Verification</td>
</tr>
<tr>
<td>COMP 531</td>
<td>(3)</td>
<td>Advanced Theory of Computation</td>
</tr>
<tr>
<td>COMP 540</td>
<td>(3)</td>
<td>Matrix Computations</td>
</tr>
<tr>
<td>COMP 547</td>
<td>(4)</td>
<td>Cryptography and Data Security</td>
</tr>
<tr>
<td>COMP 552</td>
<td>(4)</td>
<td>Combinatorial Optimization</td>
</tr>
<tr>
<td>COMP 554</td>
<td>(4)</td>
<td>Approximation Algorithms</td>
</tr>
<tr>
<td>COMP 560</td>
<td>(3)</td>
<td>Graph Algorithms and Applications</td>
</tr>
<tr>
<td>COMP 561</td>
<td>(4)</td>
<td>Computational Biology Methods and Research</td>
</tr>
<tr>
<td>COMP 564</td>
<td>(3)</td>
<td>Advanced Computational Biology Methods and Research</td>
</tr>
<tr>
<td>COMP 566</td>
<td>(3)</td>
<td>Discrete Optimization 1</td>
</tr>
<tr>
<td>COMP 567</td>
<td>(3)</td>
<td>Discrete Optimization 2</td>
</tr>
<tr>
<td>COMP 598</td>
<td>(3)</td>
<td>Topics in Computer Science 1</td>
</tr>
<tr>
<td>COMP 599</td>
<td>(3)</td>
<td>Topics in Computer Science 2</td>
</tr>
<tr>
<td>COMP 610</td>
<td>(4)</td>
<td>Information Structures 1</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>COMP 627</td>
<td>(4)</td>
<td>Theoretical Programming Languages</td>
</tr>
<tr>
<td>COMP 642</td>
<td>(4)</td>
<td>Numerical Estimation Methods</td>
</tr>
<tr>
<td>COMP 647</td>
<td>(4)</td>
<td>Advanced Cryptography</td>
</tr>
<tr>
<td>COMP 649</td>
<td>(4)</td>
<td>Quantum Cryptography</td>
</tr>
<tr>
<td>COMP 680</td>
<td>(4)</td>
<td>Mining Biological Sequences</td>
</tr>
<tr>
<td>COMP 690</td>
<td>(4)</td>
<td>Probabilistic Analysis of Algorithms</td>
</tr>
<tr>
<td>COMP 760</td>
<td>(4)</td>
<td>Advanced Topics Theory 1</td>
</tr>
<tr>
<td>COMP 761</td>
<td>(4)</td>
<td>Advanced Topics Theory 2</td>
</tr>
</tbody>
</table>

### Category B: Systems and Applications

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 512</td>
<td>(4)</td>
<td>Distributed Systems</td>
</tr>
<tr>
<td>COMP 520</td>
<td>(4)</td>
<td>Compiler Design</td>
</tr>
<tr>
<td>COMP 521</td>
<td>(4)</td>
<td>Modern Computer Games</td>
</tr>
<tr>
<td>COMP 522</td>
<td>(4)</td>
<td>Modelling and Simulation</td>
</tr>
<tr>
<td>COMP 526</td>
<td>(3)</td>
<td>Probabilistic Reasoning and AI</td>
</tr>
<tr>
<td>COMP 529</td>
<td>(4)</td>
<td>Software Architecture</td>
</tr>
<tr>
<td>COMP 533</td>
<td>(3)</td>
<td>Model-Driven Software Development</td>
</tr>
</tbody>
</table>
COMP 535  (3)  Computer Networks 1
COMP 546  (4)  Computational Perception
COMP 557  (3)  Fundamentals of Computer Graphics
COMP 558  (3)  Fundamentals of Computer Vision
COMP 575  (3)  Fundamentals of Distributed Algorithms
COMP 598  (3)  Topics in Computer Science 1
COMP 599  (3)  Topics in Computer Science 2
COMP 612  (4)  Database Programming Principles
COMP 614  (4)  Distributed Data Management
COMP 621  (4)  Program Analysis and Transformations
COMP 652  (4)  Machine Learning
COMP 655  (4)  Distributed Simulation
COMP 667  (4)  Software Fault Tolerance
COMP 762  (4)  Advanced Topics Programming 1
COMP 763  (4)  Advanced Topics Programming 2
COMP 764  (4)  Advanced Topics Systems 1
COMP 765  (4)  Advanced Topics Systems 2
COMP 766  (4)  Advanced Topics Applications 1
COMP 767  (4)  Advanced Topics: Applications 2

Note: Each year the Ph.D. Committee will determine which category COMP 598 and COMP 599 belong to according to the subjects taught in those courses.

14.11.4.10 Doctor of Philosophy (Ph.D.) Computer Science: Bioinformatics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
COMP 616D1  (1.5)  Bioinformatics Seminar
COMP 616D2  (1.5)  Bioinformatics Seminar
COMP 700  (0)  Ph.D. Comprehensive Examination
COMP 701  (3)  Thesis Proposal and Area Examination

Complementary Courses
Two courses chosen from the following:
BINF 621  (3)  Bioinformatics: Molecular Biology
BMDE 652  (3)  Bioinformatics: Proteomics
BTEC 555  (3)  Structural Bioinformatics
COMP 618  (3)  Bioinformatics: Functional Genomics
PHGY 603  (3)  Systems Biology and Biophysics
Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee. Students who have completed the M.Sc.-level option in Bioinformatics must complete 6 credits of complementary courses not taken in the master's program.

14.11.5 Earth and Planetary Sciences

14.11.5.1 Location

Department of Earth and Planetary Sciences
Frank Dawson Adams Building
3450 University Street
Montreal QC H3A 0E8
Canada
Telephone: 514-398-6767
Fax: 514-398-4680
Email: grad.eps@mcgill.ca
Website: www.mcgill.ca/eps

14.11.5.2 About Earth and Planetary Sciences

The Department of Earth and Planetary Sciences offers both M.Sc. and Ph.D. degree programs. Graduate programs are based on research, although some courses are required to build the backgrounds of students. Research in the Department is wide-ranging, and includes:

- studies of the geochemistry of the mantle;
- the nature of processes concentrating metals in hydrothermal mineral deposits;
- experimental studies of the controls of viscosity in magmas and the mechanisms of volcanic eruption;
- the fate of carbon and trace metals in marine sediments;
- the nature of changes in atmospheric and oceanic chemistry in the early and late Precambrian;
- mechanisms of faulting;
- the evolution of topography during orogenesis;
- wetland hydrogeology;
- interactions between the cryosphere, solid Earth, and climate systems;
- planetary-scale ocean biogeochemistry (e.g., ocean acidification) and its relationship to global warming.

There is a very substantial interdisciplinary basis to much of the research. Facilities in the Department include low-temperature and pressure to high-temperature and pressure experimental laboratories, a stable-isotope mass spectrometer, laser-ablation ICP-MS, and electron microprobe, as well as atomic absorption spectrometers. Our students also make substantial use of other facilities at McGill and at nearby Université du Québec à Montréal.

Financial assistance is available in the form of teaching assistantships, research assistantships, and scholarships.

Areas of Research:

Aquatic Geochemistry
Application of chemical thermodynamics, kinetics, and surface chemistry to the characterization of mineral-solution interactions in aquatic environments; carbonate geochemistry; early diagenesis of marine and coastal sediments; trace metal and environmental geochemistry in freshwater and marine systems.

Biogeochemistry
Response of the marine ecosystem to climate change and anthropogenic stresses through observations of the modern ocean, and experimental and numerical simulations of ocean biogeochemistry. Reconstructions of past climate change using sediments from lacustrine, coastal, and marine sediments. The processes controlling carbon cycling in freshwater environments, including the burial of organic matter in sediments and the production of greenhouse gases through microbial respiration. Development of new isotopic methods for tracing carbon-cycle and hydrological change in the past and present.

Economic Geology
Studies of the genesis of hydrothermal mineral deposits through a combination of field-based, experimental, and theoretical methods. Research focuses on the understanding of physico-chemical controls of mineralization, through geological mapping of deposits; experimental studies of metal solubility and speciation in hydrothermal systems; simulations of hydrothermal alteration; and theoretical studies designed to estimate conditions of alteration and ore formation. Trace-element chemistry of minerals as quantitative probes of the compositions of ore-forming fluids.

Geophysics and Climate
Applying physics to study the interactions between the solid Earth, ice, ocean, and climate systems; numerical modelling, analysis, and interpretation of paleo and modern sea-level changes, solid earth deformation and glacial isostatic adjustment, and ice in the Earth and climate systems.

Hydrogeology
Studies of pore-water flow in northern peatlands; heat transport; heat as a tracer of natural systems; groundwater modelling; coupled numerical models of pore water flow and heat transport with freeze/thaw processes; and the impact of melting tropical glaciers on water resources.

**Igneous Petrology**

Experimental studies of the structure, thermodynamics, and transport properties (diffusion and viscosity) of silicate melts and applications to igneous petrogenesis. The nature of the Earth's upper mantle and the processes within it which give rise to basaltic volcanism on both the Earth and the other terrestrial planets. Applications of laser ablation ICPMS; petrology, geochemistry, and tectonics of the Appalachian lithosphere.

**Isotopic Geochemistry and Sedimentary Geology**

Sedimentology, stratigraphy, and isotope geochemistry as guides to reconstructing ancient environments. Reconstruction of Proterozoic paleogeographies and the origin and evolution of Proterozoic sedimentary basins. Documenting and interpreting paleoenvironmental change during the Proterozoic. Relationships between tectonics (i.e., supercontinental break-up and assembly), seawater chemistry and ocean redox, and climate change. Calibrating the diversification of early eukaryotes and their impact on global biogeochemical cycles.

**Mineralogy**

Chemistry and crystallography of carbonate and a variety of rock-forming and biogenic minerals; experimental investigations of the effect of environmental factors (e.g., solution composition and temperature) on the morphology and composition of carbonate and phosphate minerals.

**Seismology**

Subduction earthquake nucleation and rupture propagation processes; physical mechanism of aseismic deformation transients, deep non-volcanic tremors, dynamic and static stress triggering of low-frequency earthquakes and transients; pore-fluid pressure coupling with frictional strength and slip.

**Tectonics and Structural Geology**

Digital field mapping, microstructural characterization, and mineralogical analyses of deformation structure kinematics, geometry, and deformation processes; archean orogenic processes; structural controls on ore deposit genesis; fluid flow in faults, granular flow in faults, and catastrophic structural/geochemical events in faults; earthquake mechanics and processes recorded in rocks; brittle-ductile transition structures and rheology.

**Volcanology**

Petrology and geochemistry of intermediate and felsic magmas; understanding physical processes and forecasting eruptions at active subduction-zone volcanoes; geochemistry of volcanic gases, their use for eruption prediction, and their impact on the atmosphere.

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**section 14.11.5.5: Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis) (45 credits)**

The nature of graduate research in the Department of Earth and Planetary Sciences is highly variable. As a result, students may enter the graduate program with backgrounds in earth sciences, chemistry, or physics, depending on their research interests and the supervisor with whom they wish to work. Students pursuing an M.Sc. are required to take four courses, but their major project is an M.Sc. thesis that typically results in a journal publication. Research for the thesis typically begins in the first year of residence and is completed, together with the written results, in the second year of residence.

Students graduating from the program typically proceed to a Ph.D. or work in the mineral exploration or petroleum industries. Excellent students admitted into the M.Sc. program can be “fast-tracked” from the M.Sc. into the Ph.D. program at the end of the first year if suitable progress has been demonstrated. Such students are required to take a minimum of 18 credits of coursework in total, and a comprehensive oral examination in the Ph.D. 2 year.

**section 14.11.5.6: Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis): Environment (48 credits)**

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students that have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment (MSE), in partnership with participating academic units.

**section 14.11.5.7: Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences**

The nature of graduate research in the Department of Earth and Planetary Sciences is highly variable. As a result, students may enter the graduate program with backgrounds in earth sciences, chemistry, or physics, depending on their research interests and the supervisor with whom they wish to work. Ph.D. students typically enter with an M.Sc., in which case they are required by our regulations to take only two courses, although a supervisor may require more, depending on the suitability of the student’s background. Aside from courses, the first year is occupied by early work on the thesis project that constitutes the bulk of the Ph.D., with preparation for an oral examination on their research proposal at the end of the first year. Conduct of the research, and preparation of the results, for thesis and publication, typically takes three additional years. Students entering the Ph.D. program without an M.Sc. are required to take a full year of courses before embarking on the processes described above.

Students graduating from our Ph.D. program pursue careers in universities and government-funded research institutes, and in the mineral-exploration and petroleum industries.

**section 14.11.5.8: Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences: Environment**

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students that
14.11.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures

14.11.5.3.1 Admission Requirements

Applicants should have an academic background equivalent to that of a McGill graduate in the Honours or Majors program in geology, geophysics, chemistry, or physics (minimum CGPA of 3.0 out of 4.0). The Admissions Committee may modify the requirements in keeping with the field of graduate study proposed. In some cases, a Qualifying year may be required.

14.11.5.3.2 Application Procedures

Students should first contact potential supervisors within the Department of Earth and Planetary Sciences and assess their interest in accepting new students before starting the formal application procedure. General inquiries concerning the Department should be addressed to Graduate Admissions, Department of Earth and Planetary Sciences at grad.eps@mcgill.ca. Candidates should indicate their field(s) of interest when making formal applications for admission.

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

14.11.5.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Earth and Planetary Sciences and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<thead>
<tr>
<th>Application Opening Dates</th>
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<tr>
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<td>All Applicants</td>
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<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

14.11.5.4 Earth and Planetary Sciences Faculty

Chair
Jeffrey McKenzie

Emeritus Professors
Jafar Arkani-Hamed; B.Eng.(Tehran), Ph.D.(MIT)
Donald Francis; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(MIT)
Andrew J. Hynes; B.Sc.(Tor.), Ph.D.(Cant.)
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 Baker; A.B.(Chic.), Ph.D.(Penn. St.)
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.) (William E. Logan Professor of Geology)
Associate Professors
Galen Halverson; B.A.(Mont.), M.A., Ph.D.(Harv.) (T.H. Clark Chair in Sedimentary and Petroleum Geology)
Yajing Liu; B.Sc.(Peking), Ph.D.(Harv.)
Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)
Jeanne Paquette; B.Sc., M.Sc.(McG.), Ph.D.(Stonybrook)
Christie Rowe; A.B.(Smith), Ph.D.(Calif.-Santa Cruz) (Robert Wares Faculty Scholar)

Assistant Professors
Kim Berlo; Propadeuse, Doctorandus(Utrecht), Ph.D.(Brist.)
Nicolas Cowan; B.Sc.(McG.), Ph.D.(Wash.) (joint appt. with Physics)
Peter Douglas; B.Sc., Ph.D.(Yale)
Natalya Gomez; B.Sc., M.Sc.(Tor.), Ph.D.(Harv.)
James Kirkpatrick; B.Sc., M.Sc.(Leeds), Ph.D.(Glas.)
Nagissa Mahmoudi; B.Sc.(Tor.), Ph.D.(McM.)
Vincent van Hinsberg; Propadeuse, 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
R. Léveillé, B. Sundby

Retired Professor
R. Hesse

14.11.5.5 Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis) (45 credits)

Thesis Courses (33 credits)
EPSC 697 (9) Thesis Preparation 1
EPSC 698 (12) Thesis Preparation 2
EPSC 699 (12) Thesis Preparation 3

Complementary Courses (12 credits)
Four 3-credit 500-, 600-, or 700-level EPSC courses chosen with the approval of the supervisor or the research director and GPS.

14.11.5.6 Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis): Environment (48 credits)

Thesis Courses (33 credits)
EPSC 697 (9) Thesis Preparation 1
EPSC 698 (12) Thesis Preparation 2
EPSC 699 (12) Thesis Preparation 3

Required Courses (9 credits)
ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1
ENVR 651 (1) Environmental Seminar 2
ENVR 652 (1) Environmental Seminar 3
Current Issues in Geosciences (3) EPSC 666

Complementary Courses (6 credits)
One 3-credit course at the 500, 600, or 700 level chosen with the approval of the supervisor or research director and GPS.

3 credits chosen from the following courses:
- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.5.7 Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences
Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year.

* Students are required to take four graduate-level courses in the Ph.D. 1 year, and two courses plus a comprehensive oral examination in the Ph.D. 2 year.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- EPSC 700 (0) Preliminary Doctoral Examination

Complementary Courses
Two to six courses (6 to 18 credits) approved at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

14.11.5.8 Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences: Environment
Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year.

* Students are required to take four graduate-level courses (12 credits) in the Ph.D. 1 year, and two courses (6 credits) plus a comprehensive oral examination in the Ph.D. 2 year, as well as the Required Courses listed below.

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3
- EPSC 700 (0) Preliminary Doctoral Examination
Complementary Courses

* Two to six courses (6-18 credits)

One course chosen from the following courses:

<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>3</td>
<td>Global Environmental Politics</td>
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<td>ENVR 630</td>
<td>3</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>3</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>

or another course at the 500, 600, or 700 level recommended by the Advisory Committee with the student's supervisor and approved by the Academic Standing Committee.

One to five courses at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

14.11.6 Geography

14.11.6.1 Location

Department of Geography
Burnside Hall
805 Sherbrooke Street West, Room 705
Montreal QC H3A 0B9
Canada
Telephone: 514-398-4111
Fax: 514-398-7437
Email: grad.geog@mcgill.ca
Website: www.mcgill.ca/geography

14.11.6.2 About Geography

The Department of Geography offers research and thesis-based graduate programs leading to a Master of Arts (M.A.), a Master of Science (M.Sc.), or a doctorate (Ph.D.). In its scope, our program includes the opportunity to conduct field-based studies in both the natural (i.e., biophysical) and the social sciences. Thematic areas of study include:

- Political, Urban, Economic, and Health Geography;
- Environment and Development;
- Geographic Information Systems and Remote Sensing;
- Land Surface Processes, Ecosystem Biogeochemistry, and Ecohydrology;
- Earth System Science and Global Change;
- Sustainability Science and Environmental Management.

Geography houses McGill's Hitschfield Geographic Information Centre, maintains the McGill Arctic Research Station (Axel Heiburg Island, Nunavut Territory) and the McGill Sub-Arctic Research Station (Schefferville, Quebec), and has strong ties with McGill’s School of Environment. Faculty and students conduct research in fields as diverse as climate change impacts, periglacial geomorphology, and forest resource history in regions ranging from the Arctic to Africa, Southeast Asia, and Latin America.

Being both a natural and a social science, geography provides a unique opportunity to obtain a broad interdisciplinary exposure to modes of analyzing the many environmental and situational problems of contemporary society. Because of this, a geography degree is a fantastic opportunity to obtain a career in one of a diverse range of fields. Our students have gone on to become United Nations field researchers in Laos, environmental consultants in Toronto, science teachers in the U.S., geography professors in many parts of the world, UNHCR volunteers in Malaysia, policy analysts, and physical scientists in government agencies and research councils, as well as health and social policy researchers in Montreal…the list goes on! If you're on Facebook, look for McGill Geography Alumni or visit our website to learn more about the advantages of having a geography degree from McGill!

Master’s degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses.
Geography also offers in association with other McGill departments and programs a number of M.A. and M.Sc. options that students may choose to follow. Students must pass the courses specified for their program, attend such additional courses as the Chair and the student's thesis supervisor see fit, and submit a thesis in an appropriate area of geographical inquiry approved by the adviser.

**McGill Northern Research Stations**

The McGill Sub-Arctic Research Station is located in Schefferville, in the centre of Quebec-Labrador. Facilities exist for research in most areas of physical and some areas of human geography in the subarctic.

McGill University also operates a field station at Expedition Fiord on Axel Heiberg Island in the High Arctic. Facilities are limited to a small lab, dorm building, and cookhouse. Research activities focus on the glacial and geological. For additional information on these stations, contact the Scientific Director, Wayne Pollard, Department of Geography, at wayne.pollard@mcgill.ca.

**Master of Arts (M.A.) Programs in Geography**

Detailed program requirements for the following M.A. programs are found in [Arts > Graduate > Browse Academic Units & Programs > Geography.](#)

**section 3.11.9.5: Master of Arts (M.A.) Geography (Thesis) (45 credits)**

Master’s degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.

**section 3.11.9.6: Master of Arts (M.A.) Geography (Thesis): Development Studies (45 credits)**

The Development Studies Option (DSO) is cross-disciplinary in scope within existing master's programs in Geography, Anthropology, History, Political Science, Economics, and Sociology. Its components include the thesis; required International Development and Geography courses; and complementary courses from the participating departments. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

**section 3.11.9.7: Master of Arts (M.A.) Geography (Thesis): Environment (45 credits)**

The Environment option is offered in association with the McGill School of Environment (MSE) and is composed of a thesis component, required, and complementary Geography and Environment courses. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

**section 3.11.9.8: Master of Arts (M.A.) Geography (Thesis): Gender and Women’s Studies (45 credits)**

This is an interdisciplinary program for Geography students wishing to focus on gender and women’s studies and issues in feminist research and methods. Included within it are a thesis on gender and women’s studies, required, and complementary courses from Geography and Women's Studies.

**section 3.11.9.9: Master of Arts (M.A.) Geography (Thesis): Neotropical Environment (45 credits)**

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master’s or Ph.D. students offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

**Master of Science (M.Sc.) Programs in Geography**

Detailed program requirements for the following M.Sc. programs are found in [Science > Graduate > Browse Academic Units & Programs > Geography.](#)

**section 14.11.6.5: Master of Science (M.Sc.) Geography (Thesis) (45 credits)**

Master’s degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.
section 14.11.6.6: Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits)

The Environment option is offered in association with the McGill School of Environment (MSE) and is composed of a thesis component; required Geography and Environment courses; and complementary Geography and Environment courses. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

section 14.11.6.7: Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master's students offered in association with several university departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Ph.D. Programs in Geography

section 3.11.9.10: Doctor of Philosophy (Ph.D.) Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research, and coursework chosen in collaboration with the student's supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course, and a minimum of two complementary courses.

section 3.11.9.11: Doctor of Philosophy (Ph.D.) Geography: Environment

The Environment option consists of the thesis and comprehensive examination; required courses from Geography and Environment; and complementary courses in Environment or other fields recommended by the research committee and approved by the Environment Option Committee. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the McGill School of Environment, in partnership with participating academic units.

section 3.11.9.12: Doctor of Philosophy (Ph.D.) Geography: Gender and Women's Studies

This doctoral option is an interdisciplinary program for students who meet the degree requirements in Geography and who wish to earn 9 credits of approved coursework on gender and women's studies and issues in feminist research and methods. It includes a thesis centrally related to gender and/or women's studies; the comprehensive examination; required courses in Geography and Women's Studies; and complementary courses, one of which must pertain to gender and/or women's issues.

section 3.11.9.13: Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Ph.D. students offered in association with several university departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis; comprehensive examination; required courses in Geography, Environment and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

14.11.6.3 Geography Admission Requirements and Application Procedures

14.11.6.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in University Regulations & Resources > Graduate > section 1.4: Graduate Admissions and Application Procedures, but with primary undergraduate specialization in a cognate field, may be admitted to the M.A. or M.Sc. degree in Geography in certain circumstances. In general, they, and others who have deficiencies in their preparation but are otherwise judged to be acceptable, will be required to register for a Qualifying program or to undertake additional courses.

Ph.D. Degree
Students who have completed a master's degree in Geography or a related discipline (with high standing) may be admitted at the Ph.D. 2 level. On rare occasions, a student may be admitted to the Ph.D. degree without having first taken the master's degree. These students, and others who have deficiencies in their preparation but are otherwise acceptable, will be required to register for a year of coursework and/or be required to take extra courses. The normal duration of a program, including field work where required, is three years.

Normally, the Department will restrict admission to the Ph.D. program to students prepared to work in one of the fields of human or physical geography in which specialized supervision is offered. These fields, which cover a wide range of systematic areas, are listed in documents available from the Department.

14.11.6.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Further departmental application information is listed at www.mcgill.ca/geography/graduate.

14.11.6.31 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Research Proposal
- Letters of Reference – two references required for M.A. and M.Sc. programs; three references required for Ph.D. program
- Curriculum Vitae

14.11.6.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Geography Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

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<td>Summer Term:</td>
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</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

14.11.6.4 Geography Faculty

Chair
N.T. Roulet

Graduate Program Director
O.T. Coomes

Post-Retirement
S.H. Olson; M.A., Ph.D.(Johns Hop.)

Professors
P.G. Brown; M.A., Ph.D.(Col.) (cross appt. with McGill School of Environment)
O.T. Coomes; M.A.(Tor.), Ph.D.(Wisc. Mad.)
T.R. Moore; Ph.D.(Aberd.), F.R.S.C.
W.H. Pollard; M.A.(Guelph), Ph.D.(Ott.)
N.A. Ross; M.A.(Qu.), Ph.D.(McM.)
N.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (James McGill Professor)
S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)
**Professors**

G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

**Associate Professors**

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M. Kalacska; Ph.D.(Alta.)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

B. Lehner; Ph.D.(Frankfurt)

T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Cant.)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

R. Sengupta; M.Sc., Ph.D.(Ill.) (*joint appt. with McGill School of Environment*)

R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.)

**Assistant Professors**

Y. le Polain de Waroux; Ph.D.(Louvain)

G. MacDonald; M.Sc., Ph.D.(McG.)

K. Manaugh; Ph.D.(McG.)

S. Moser; Ph.D.(Sing.)

M. Riva; M.Sc., Ph.D.(Montr.) (*joint appt. with the Institute for Health and Social Policy*)

B. Robinson; Ph.D.(Wisc. Mad.)

**Adjunct Professor**

J. Wu

---

**14.11.6.5 Master of Science (M.Sc.) Geography (Thesis) (45 credits)**

**Thesis Courses (30 credits)**

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<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>GEOG 698</td>
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<td>Thesis Proposal</td>
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<td>GEOG 699</td>
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<td>Thesis Research</td>
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**Required Course (3 credits)**

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<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 631</td>
<td>3</td>
<td>Methods of Geographical Research</td>
</tr>
</tbody>
</table>

**Complementary Courses (12 credits)**

12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

**14.11.6.6 Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits)**

The Environment Option is offered in association with the McGill School of Environment and is composed of a thesis component (24 credits), required Geography and Environment courses (9 credits) and complementary Geography and Environment (12 credits) courses.

**Thesis Courses (24 credits)**
THESIS RESEARCH (ENVIRONMENT OPTION)

GEOG 697 (18) Thesis Research (Environment Option)
GEOG 698 (6) Thesis Proposal

**Required Courses (9 credits)**

- ENVR 610 (3) Foundations of Environmental Policy
- ENVR 650 (1) Environmental Seminar 1
- ENVR 651 (1) Environmental Seminar 2
- ENVR 652 (1) Environmental Seminar 3
- GEOG 631 (3) Methods of Geographical Research

**Complementary Courses (12 credits)**

9 credits of courses at the 500 level or higher selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from the following:

- ENVR 519 (3) Global Environmental Politics
- ENVR 544 (3) Environmental Measurement and Modelling
- ENVR 620 (3) Environment and Health of Species
- ENVR 622 (3) Sustainable Landscapes
- ENVR 630 (3) Civilization and Environment
- ENVR 680 (3) Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

**14.11.6.7 Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)**

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

**Thesis Courses (30 credits)**

- GEOG 698 (6) Thesis Proposal
- GEOG 699 (24) Thesis Research

**Required Courses (9 credits)**

- BIOL 640 (3) Tropical Biology and Conservation
- ENVR 610 (3) Foundations of Environmental Policy
- GEOG 631 (3) Methods of Geographical Research

**Complementary Course (3 credits)**

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

**Elective Course (3 credits)**

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approval by the student’s supervisor AND the Neotropical Environment Options Director.
14.11.6.8 Doctor of Philosophy (Ph.D.) Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student’s supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course (3 credits), and a minimum of two complementary courses (6 credits). The Ph.D. in Geography also includes several options.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
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<tbody>
<tr>
<td>GEOG 631</td>
<td>(3)</td>
<td>Methods of Geographical Research</td>
</tr>
<tr>
<td>GEOG 700</td>
<td>(0)</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>GEOG 701</td>
<td>(0)</td>
<td>Comprehensive Examination 2</td>
</tr>
<tr>
<td>GEOG 702</td>
<td>(0)</td>
<td>Comprehensive Examination 3</td>
</tr>
</tbody>
</table>

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

14.11.6.9 Doctor of Philosophy (Ph.D.) Geography: Environment

The option consists of the thesis and comprehensive examination, required courses (9 credits) from Geography and Environment and complementary courses (9 credits) in Environment or other fields recommended by the research committee and approved by the Environment Option Committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>ENVR 650</td>
<td>(1)</td>
<td>Environmental Seminar 1</td>
</tr>
<tr>
<td>ENVR 651</td>
<td>(1)</td>
<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
<td>(1)</td>
<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>GEOG 631</td>
<td>(3)</td>
<td>Methods of Geographical Research</td>
</tr>
</tbody>
</table>

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

One course chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 519</td>
<td>(3)</td>
<td>Global Environmental Politics</td>
</tr>
<tr>
<td>ENVR 544</td>
<td>(3)</td>
<td>Environmental Measurement and Modelling</td>
</tr>
<tr>
<td>ENVR 620</td>
<td>(3)</td>
<td>Environment and Health of Species</td>
</tr>
<tr>
<td>ENVR 622</td>
<td>(3)</td>
<td>Sustainable Landscapes</td>
</tr>
<tr>
<td>ENVR 630</td>
<td>(3)</td>
<td>Civilization and Environment</td>
</tr>
<tr>
<td>ENVR 680</td>
<td>(3)</td>
<td>Topics in Environment 4</td>
</tr>
</tbody>
</table>
or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

**Comprehensives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 700</td>
<td>0</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>GEOG 701</td>
<td>0</td>
<td>Comprehensive Examination 2</td>
</tr>
<tr>
<td>GEOG 702</td>
<td>0</td>
<td>Comprehensive Examination 3</td>
</tr>
</tbody>
</table>

**14.11.6.10 Doctor of Philosophy (Ph.D.) Geography: Gender and Women’s Studies**

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Geography who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 631</td>
<td>3</td>
<td>Methods of Geographical Research</td>
</tr>
<tr>
<td>GEOG 700</td>
<td>0</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>GEOG 701</td>
<td>0</td>
<td>Comprehensive Examination 2</td>
</tr>
<tr>
<td>GEOG 702</td>
<td>0</td>
<td>Comprehensive Examination 3</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
</tr>
</tbody>
</table>

**Complementary Courses**

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

**14.11.6.11 Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment**

The Neotropical Option is offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis, comprehensive examination, required courses (9 credits) in Geography, Environment and Biology, and complementary courses (3 credits) chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science.

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

**Thesis**

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>3</td>
<td>Tropical Biology and Conservation</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>3</td>
<td>Foundations of Environmental Policy</td>
</tr>
<tr>
<td>GEOG 631</td>
<td>3</td>
<td>Methods of Geographical Research</td>
</tr>
<tr>
<td>GEOG 700</td>
<td>0</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>GEOG 701</td>
<td>0</td>
<td>Comprehensive Examination 2</td>
</tr>
</tbody>
</table>
Elective Courses
3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student’s supervisor AND the Neotropical Environment Options Director.

14.11.7 Mathematics and Statistics

14.11.7.1 Location
Department of Mathematics and Statistics
Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal QC H3A 0B9
Canada
Telephone: 514-398-3800
Fax: 514-398-3899
Email: grad.mathstat@mcgill.ca
Website: www.mcgill.ca/mathstat/

14.11.7.2 About Mathematics and Statistics
The Department of Mathematics and Statistics offers programs that can be focused on applied mathematics, pure mathematics, and statistics leading to master’s degrees (M.A. or M.Sc.), with program options in Bioinformatics and in Computational Science and Engineering (CSE). The research groups are:

- Algebra;
- Algebraic Geometry;
- Analysis;
- Applied Mathematics;
- Differential Equations;
- Differential Geometry;
- Discrete Mathematics;
- Geometric Group Theory;
- Logic;
- Mathematical Biology;
- Mathematical Physics;
- Number Theory;
- Probability;
- Statistics.

In the basic master’s programs, students must choose between the thesis option, and the non-thesis option which requires a project. The Bioinformatics and CSE options require a thesis. In addition to the Ph.D. program in Mathematics and Statistics, there is a Ph.D. option in Bioinformatics.

The Department's website provides extensive information on the Department and its facilities, including the research activities and research interests of individual faculty members. It also provides detailed supplementary information concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.

Students are urged to consult the Institut des Sciences Mathématiques (ISM) website, which coordinates intermediate and advanced-level graduate courses among Montreal and Quebec universities. A list of courses available under the ISM auspices can be obtained from the ISM website. The ISM also offers fellowships and promotes a variety of joint academic activities greatly enhancing the mathematical environment in Montreal and in the province of Quebec.

Master of Arts (M.A.) Programs in Mathematics and Statistics
Detailed program requirements for the following M.A. programs are found in Arts > Graduate > Browse Academic Units & Programs > Mathematics and Statistics.

section 3.11.17.5: Master of Arts (M.A.) Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the Master's degree (M.A.). The thesis option requires a thesis and six approved courses.
section 3.11.17.6: Master of Arts (M.A.) Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.A.). The non-thesis option requires a project and eight approved courses.

Master of Science (M.Sc.) Programs in Mathematics and Statistics

Detailed program requirements for the following M.Sc. programs are found in Science > Graduate > Browse Academic Units & Programs > Mathematics and Statistics.

section 14.11.7.5: Master of Science (M.Sc.) Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The thesis option requires a thesis and six approved courses.

section 14.11.7.6: Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Bioinformatics (48 credits)

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field.

section 14.11.7.7: Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering (47 credits)

CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science. CSE focuses on the development of problem-solving methodologies and robust tools for the solution of scientific and engineering problems.

section 14.11.7.8: Master of Science (M.Sc.) Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The non-thesis option requires a project and eight approved courses.

Ph.D. Programs in Mathematics and Statistics

section 3.11.17.7: Doctor of Philosophy (Ph.D.) Mathematics and Statistics

The Department offers a course of studies leading to the Ph.D. degree. It differs substantially from the master's programs in that the student must write a thesis that makes an original contribution to knowledge. The thesis topic is chosen by the student in consultation with the research supervisor. The thesis must be examined and approved by an internal examiner (normally the research supervisor), an external examiner and the Oral Examination Committee. The student must make an oral defense of the thesis before that Committee. In addition, the student has to pass comprehensive examinations.

section 3.11.17.8: Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field and will have the capability of developing an independent bioinformatics research program.

14.11.7.3 Mathematics and Statistics Admission Requirements and Application Procedures

14.11.7.3.1 Admission Requirements

In addition to the general Graduate and Postdoctoral Studies requirements, the Department requirements are as follows:

Master's Degree

The normal entrance requirement for the master's programs is a Canadian honours degree or its equivalent, with high standing, in mathematics or a closely related discipline in the case of applicants intending to concentrate in statistics or applied mathematics.

Applicants wishing to concentrate in pure mathematics should have a strong background in linear algebra, abstract algebra, and real and complex analysis. Applicants wishing to concentrate in statistics should have a strong background in linear algebra and basic real analysis. A calculus-based course in probability and one in statistics are required, as well as some knowledge of computer programming. Some knowledge of numerical analysis and optimization is desirable.
Applicants wishing to concentrate in applied mathematics should have a strong background in most of the areas of linear algebra, analysis, differential equations, discrete mathematics, and numerical analysis. Some knowledge of computer programming is also desirable.

Students whose preparation is insufficient for the program they wish to enter may, exceptionally, be admitted to a Qualifying year.

**Ph.D. Degree**

A master's degree with high standing is required, in addition to the requirements listed above for the master's program. Students may transfer directly from the master’s program to the Ph.D. program under certain conditions. Students without a master's degree, but with exceptionally strong undergraduate training, may be admitted directly to Ph.D. 1.

14.11.7.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

14.11.7.21 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Personal Statement – In the personal statement, the applicants should clearly explain their choice of preferred research group(s) and preferred area(s) of research, as well as providing relevant information that will not be reflected on their transcripts
- Research Proposal (optional) – If applicants have a specific research problem of interest that they want to pursue, they may discuss the details in the research proposal
- Applicants in pure and applied mathematics should provide a GRE score report, if available

For more details, please consult www.mcgill.ca/mathstat/postgraduate/prospective-students/admissions.

14.11.7.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Mathematics and Statistics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

14.11.7.4 Mathematics and Statistics Faculty

**Chair**

David A. Stephens

**Graduate Program Director**

Dmitry Jakobson

**Emeritus Professors**

William J. Anderson; B.Eng., Ph.D.(McG.)
Michael Barr; A.B., Ph.D.(Penn.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)
William G. Brown; B.A.(Tor.), M.A.(Col.), Ph.D.(Tor.)
Marta Bunge; M.A., Ph.D.(Penn.)
Ian Connell; B.Sc., M.Sc.(Manit.), Ph.D.(McG.)
Kohur N. GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)
Paul Koosis; B.A., Ph.D.(Calif., Berk.)
Michael Makkai; M.A., Ph.D.(Bud.) (*Peter Redpath Professor of Pure Mathematics*)
Emeritus Professors
Sherwin Maslowe; B.Sc.(Wayne St.), 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.)
Vanamamalai Seshadri; B.Sc, M.Sc.(Madr.), Ph.D.(Okl.)
George P.H. Styan; M.A., Ph.D.(Col.)
Kwok Kuen Tam; M.A., Ph.D.(Tor.)
John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)
Jian-Jun Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Rensselaer Poly.)
Sanjo Zlobec; M.Sc.(Zagreb), Ph.D.(N'western)

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)
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.(Can.)
Christian Genest; B.Sp.Sc.(UQAC), M.Sc.(UQAM), Ph.D.(Br. Col.) (Canada Research Chair)
Eyal Z. Gore; 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.), D.Phil.(Oxf.) F.R.S.C.
Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (Peter Redpath Professor)
Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Calif. Tech.)
Niky Kamran; B.Sc., M.Sc.(Bruxelles), Ph.D.(Wat.), F.R.S.C. (James McGill Professor)
Adam Oberman; B.S.(Tor.), M.S., Ph.D.(Chic.)
Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)
David A. Stephens; B.Sc., Ph.D.(Nott.) (James McGill Professor)
John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT) (William Dawson Scholar)
Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT) (joint appt. with Computer Science)
Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.) (James McGill Professor)
David Wolfson; B.Sc., M.Sc.(Natal), Ph.D.(Purd.)

Associate Professors
Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)
Antony R. Humphries; B.A., M.A.(Camb.), Ph.D.(Bath)
Abbas Khalili; B.S., M.S.(Isfahan Univ. of Tech), Ph.D.(Wat.)
Jean-Philippe Lessard; B.Sc.(Sher.), M.Sc.(Montr.), Ph.D.(Georgia Tech.)
Jean-Christophe Nave; B.Sc., Ph.D.(Calif., Santa Barbara)
Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)
Sergey Norin; M.S.(Saint Petersburg St.), Ph.D.(Georgia Tech.)
Mikael Pichot; B.Sc.(Lyon), M.S., Ph.D.(ENS Lyon)
Russell Steele; B.S., M.S.(Carn. Mell), Ph.D.(Wash.)
Gantumur Tsogtgerel; B.Sc.(Nat. Univ. Mongolia), M.Sc., Ph.D.(Utrecht)
Assistant Professors

Linan Chen; B.S.(Tsinghua), Ph.D.(MIT)
Sarah Harrison; B.Sc.(MIT), Ph.D.(Stan.)
Tim Hoheisel; Dipl., Ph.D.(Wurzburg)
Jessica Lin; B.A.(NYU), Ph.D.(Chic.)
Piotr Przytycki; M.Sc., Ph.D.(Warsaw)
Maksym Radziwill; B.Sc.(McG.), Ph.D.(Stan.) (Canada Research Chair)
Marcin Sabok; M.Sc., Ph.D.(Warsaw)
Jérôme Vétois; Ph.D.(Cergy-Pontoise)
Yi Yang; B.S.(Sichuan), M.S., Ph.D.(Minn.)

Associate Members

Xiao-Wen Chang (Computer Science)
Luc P. Devroye (Computer Science)
Pierre R.L. Dutilleul (Plant Science)
Leon Glass (Physiology)
James A. Hanley (Epidemiology and Biostatistics)
Hamed Hatami (Computer Science)
Lawrence Joseph (Epidemiology and Biostatistics)
Anmar Khadra (Physiology)
Michael Mackey (Physiology)
Erica E.M. Moodie (Epidemiology and Biostatistics)
Prakash Panangaden (Computer Science)
Robert W. Platt (Epidemiology and Biostatistics)
James O. Ramsay (Psychology)
Alexandra Schmidt (Epidemiology and Biostatistics)
Kaleem Siddiqi (Computer Science)
Christina Wolfson (Epidemiology and Biostatistics)

Adjunct Professors

Renato C. Calleja; B.S.(Tec. Autonomo de Mexico), Ph.D.(Texas-Austin)
Vasek Chvatal; Ph.D.(Wat.)
Eliot Freid; B.S.(Calif. Poly. St.), M.S., Ph.D.(Calif. Tech.)
Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)
Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)
Payman L. Kassaei; B.Sc.(Sharif Tech.), Ph.D.(MIT)
Dimitris Koukoulopoulos; M.Sc., Ph.D.(Ill.-Chic.)
Etienne Marceau; B.Sc., M.Sc.(Laval); Ph.D.(Louvain)
Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Uni.), Ph.D.(Kanazawa)
Claude-Alain Pillet; M.Sc., Ph.D.(ETH Zurich)
Iosif Polterovich; M.Sc.(Moscow St.), Ph.D.(Weizmann Inst.)
M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.
Robert A. Seely; B.Sc.(McG.), Ph.D.(Cant.)
F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.)
Adjunct Professors
Armen Shirikyan; M.Sc., Ph.D.(Moscow St.); Habilitation(Paris-Sud XI)
Johannes Walcher; Dip., Ph.D.(ETH Zurich) (joint appt. with Physics)

Senior Faculty Lecturer
Axel Hundemer; M.Sc., Ph.D.(Munich)

Faculty Lecturers
José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)
Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)
Sidney Trudeau; Ph.D.(McG.)

14.11.7.5 Master of Science (M.Sc.) Mathematics and Statistics (Thesis) (45 credits)

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 600</td>
<td>6</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>MATH 601</td>
<td>6</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>MATH 604</td>
<td>6</td>
<td>Master's Thesis Research 3</td>
</tr>
<tr>
<td>MATH 605</td>
<td>6</td>
<td>Master's Thesis Research 4</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**
At least six approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

14.11.7.6 Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Bioinformatics (48 credits)

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 600</td>
<td>6</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>MATH 601</td>
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<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>MATH 604</td>
<td>6</td>
<td>Master's Thesis Research 3</td>
</tr>
<tr>
<td>MATH 605</td>
<td>6</td>
<td>Master's Thesis Research 4</td>
</tr>
</tbody>
</table>

**Required Course (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 616D1</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
<tr>
<td>COMP 616D2</td>
<td>(1.5)</td>
<td>Bioinformatics Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**
6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
<td>Bioinformatics: Molecular Biology</td>
</tr>
<tr>
<td>BMDE 652</td>
<td>(3)</td>
<td>Bioinformatics: Proteomics</td>
</tr>
<tr>
<td>BTEC 555</td>
<td>(3)</td>
<td>Structural Bioinformatics</td>
</tr>
<tr>
<td>COMP 618</td>
<td>(3)</td>
<td>Bioinformatics: Functional Genomics</td>
</tr>
<tr>
<td>PHGY 603</td>
<td>(3)</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

15 credits of approved courses at the 500 or 600 level. Additional courses may be required at the discretion of the candidate's supervisory committee.
14.11.7.7 Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering (47 credits)

**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 600</td>
<td>(6)</td>
<td>Master's Thesis Research 1</td>
</tr>
<tr>
<td>MATH 601</td>
<td>(6)</td>
<td>Master's Thesis Research 2</td>
</tr>
<tr>
<td>MATH 604</td>
<td>(6)</td>
<td>Master's Thesis Research 3</td>
</tr>
<tr>
<td>MATH 605</td>
<td>(6)</td>
<td>Master's Thesis Research 4</td>
</tr>
</tbody>
</table>

**Required Course**

(1 credit)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 669D1</td>
<td>(.5)</td>
<td>CSE Seminar</td>
</tr>
<tr>
<td>MATH 669D2</td>
<td>(.5)</td>
<td>CSE Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (22 credits)**

(minimum 22 credits)

Two courses from List A, two courses from List B, and the remaining credits to be chosen from graduate (500- or 600-level) courses in the Department of Mathematics and Statistics. Two complementary courses must be taken outside the Department of Mathematics and Statistics.

**List A - Scientific Computing Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 602</td>
<td>(4)</td>
<td>Finite Element Analysis</td>
</tr>
<tr>
<td>COMP 522</td>
<td>(4)</td>
<td>Modelling and Simulation</td>
</tr>
<tr>
<td>COMP 540</td>
<td>(3)</td>
<td>Matrix Computations</td>
</tr>
<tr>
<td>COMP 566</td>
<td>(3)</td>
<td>Discrete Optimization 1</td>
</tr>
<tr>
<td>MATH 578</td>
<td>(4)</td>
<td>Numerical Analysis 1</td>
</tr>
<tr>
<td>MATH 579</td>
<td>(4)</td>
<td>Numerical Differential Equations</td>
</tr>
</tbody>
</table>

**List B - Applications and Specialized Methods Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATOC 512</td>
<td>(3)</td>
<td>Atmospheric and Oceanic Dynamics</td>
</tr>
<tr>
<td>ATOC 513</td>
<td>(3)</td>
<td>Waves and Stability</td>
</tr>
<tr>
<td>ATOC 515</td>
<td>(3)</td>
<td>Turbulence in Atmosphere and Oceans</td>
</tr>
<tr>
<td>CIVE 572</td>
<td>(3)</td>
<td>Computational Hydraulics</td>
</tr>
<tr>
<td>CIVE 603</td>
<td>(4)</td>
<td>Structural Dynamics</td>
</tr>
<tr>
<td>COMP 557</td>
<td>(3)</td>
<td>Fundamentals of Computer Graphics</td>
</tr>
<tr>
<td>COMP 558</td>
<td>(3)</td>
<td>Fundamentals of Computer Vision</td>
</tr>
<tr>
<td>COMP 567</td>
<td>(3)</td>
<td>Discrete Optimization 2</td>
</tr>
<tr>
<td>COMP 621</td>
<td>(4)</td>
<td>Program Analysis and Transformations</td>
</tr>
<tr>
<td>COMP 642</td>
<td>(4)</td>
<td>Numerical Estimation Methods</td>
</tr>
<tr>
<td>COMP 767</td>
<td>(4)</td>
<td>Advanced Topics: Applications 2</td>
</tr>
<tr>
<td>ECSE 507</td>
<td>(3)</td>
<td>Optimization and Optimal Control</td>
</tr>
<tr>
<td>ECSE 532</td>
<td>(3)</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>ECSE 547</td>
<td>(3)</td>
<td>Finite Elements in Electrical Engineering</td>
</tr>
<tr>
<td>ECSE 549</td>
<td>(3)</td>
<td>Expert Systems in Electrical Design</td>
</tr>
<tr>
<td>MATH 555</td>
<td>(4)</td>
<td>Fluid Dynamics</td>
</tr>
</tbody>
</table>
MATH 560 (4) Optimization
MATH 761 (4) Advanced Topics in Applied Mathematics I
MECH 533 (3) Subsonic Aerodynamics
MECH 537 (3) High-Speed Aerodynamics
MECH 538 (3) Unsteady Aerodynamics
MECH 539 (3) Computational Aerodynamics
MECH 541 (3) Kinematic Synthesis
MECH 572 (3) Introduction to Robotics
MECH 573 (3) Mechanics of Robotic Systems
MECH 577 (3) Optimum Design
MECH 610 (4) Fundamentals of Fluid Dynamics
MECH 620 (4) Advanced Computational Aerodynamics
MECH 632 (4) Advanced Mechanics of Materials
MECH 642 (4) Advanced Dynamics
MECH 650 (4) Fundamentals of Heat Transfer
MECH 654 (4) Compt. Fluid Flow and Heat Transfer

14.11.7.8 Master of Science (M.Sc.) Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)
MATH 640 (8) Project 1
MATH 641 (8) Project 2

Complementary Courses (29 credits)
At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

14.11.7.9 Doctor of Philosophy (Ph.D.) Mathematics and Statistics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
MATH 700 (0) Ph.D. Comprehensive Examination Part A
MATH 701 (0) Ph.D. Comprehensive Examination Part B

Complementary Courses (21 credits)
Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

14.11.7.10 Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.
Required Courses (3 credits)

COMP 616D1 (1.5) Bioinformatics Seminar
COMP 616D2 (1.5) Bioinformatics Seminar
MATH 700 (0) Ph.D. Comprehensive Examination Part A
MATH 701 (0) Ph.D. Comprehensive Examination Part B

Complementary Courses (6 credits)

(3-6 credits)
The twelve one-semester complementary courses for the Ph.D. degree must include at least two from the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the list below must be chosen:

BINF 621 (3) Bioinformatics: Molecular Biology
BMDE 652 (3) Bioinformatics: Proteomics
BTEC 555 (3) Structural Bioinformatics
COMP 618 (3) Bioinformatics: Functional Genomics
PHGY 603 (3) Systems Biology and Biophysics

14.11.8 Physics

14.11.8.1 Location

Department of Physics
Ernest Rutherford Physics Building
3600 University Street
Montreal QC H3A 2T8
Canada
Telephone: 514-398-6485 (Graduate Information)
Fax: 514-398-8434
Email: graduate.physics@mcgill.ca
Website: www.physics.mcgill.ca

14.11.8.2 About Physics

The Department of Physics currently has a faculty of approximately 40 members, including several holders of Canada Research Chairs and many other prestigious named Chairs. Additionally, we host an impressive number of postdoctoral fellows and research associates and run one of the largest and most vibrant graduate programs in North America. The graduate student enrolment is currently approximately 200.

Faculty members in the Department of Physics are recognized internationally for their excellence. Our members have received national and international prizes and fellowships including Les Prix Du Québec, Steacie Prize, Sloan Fellowships, NSERC, and many others. They are also in constant demand as reviewers and referees. Students who earn advanced degrees from the Department of Physics will not only get an excellent education, they will also receive valuable guidance and network contacts to help with subsequent career steps.

The Department offers full M.Sc. and Ph.D. degree programs in a wide range of disciplines, including:

- astrophysics;
- atmospheric physics;
- bio-physics;
- condensed-matter physics;
- high-energy physics;
- laser spectroscopy;
- material physics;
- non-linear dynamics and atmospheric physics;
- nuclear physics;
- statistical physics;
- medical-radiation physics.

Although most of the teaching and research facilities are located in the Ernest Rutherford Physics Building, the Department has space and research facilities in the Wong Materials Science Centre, adjacent to the Rutherford Building. Our groups also conduct research at the McGill University Health Centre (MUHC), Jewish General Hospital, the Montreal Neurological Institute (MNI) and laboratories around the world, including Argonne, CERN, Fermilab, SLAC, TRIUMF, and KEK.

Departmental researchers enjoy technical support in the areas of engineering, electronics, and precision machining. The Department maintains an excellent conventional machine shop as well as the McGill Nanotools-Microfab facility. Most of the scientific computing is done with an extensive in-house network of powerful workstations and several Beowulf clusters.

Remote access to supercomputing sites in Canada and the United States is also possible including the McGill HPC super-computing facility which is a part of the nationwide network of High Performance Computing Installations in Quebec.

The Department of Physics offers a competitive funding package for both local and international students. For more information about financial support, please see www.physics.mcgill.ca/grads/finance.html.

Graduate students in the Department of Physics come from many different countries and cultural backgrounds, providing a stimulating cosmopolitan atmosphere in the Department. This, coupled with the unique opportunities afforded by the city of Montreal, guarantees a quality of life that is second to none among Canadian universities. For graduate admission and application information, please visit www.physics.mcgill.ca/grads/application.html.

Fields of Research:

High-Energy Physics

Theoretical: The McGill high energy theorists have interests in a wide range of areas within quantum field theory, string theory, quantum gravity, and cosmology. Research areas of the high-energy theory faculty include applications of quantum field theory techniques to relativistic heavy ion collisions, baryogenesis, superstring cosmology, theory of cosmological perturbations, black hole physics, supergravity, three dimensional gravity, and various topics related to the physics and mathematics of superstring theory. The high-energy theorists have close connections to the nuclear theory group, the astrophysics group, the high-energy experimentalists, and to members of the Mathematics Department.

Experimental: The experimental high-energy physics group is engaged in a number of experiments at the research frontiers of the field, both in subatomic physics and in high-energy astrophysics. These include:

- Electron-positron collisions: a group works on the BaBar experiment at SLAC and the Belle-2 experiment at the KEK laboratory in Japan, with specific interest in CKM matrix elements and physics beyond the Standard Model through studies of rare decays, and on R&D for a future International Linear Collider, with interest in calorimeter development.
- Hadron-hadron collisions: A group is involved in major contributions to the energy frontier at CERN's LHC, with work on the High Level Trigger for the ATLAS experiment. Work also focuses on searches for new physics phenomena, precision physics of known Standard Model processes, development of the ATLAS experiment's trigger system, and direct contribution to the upgrade of the ATLAS detector.
- High-energy particle astrophysics: ground-based gamma-ray astronomy using the VERITAS telescope array and development of the next-generation detector.
- Underground physics: A group carries out experimental R&D with the aim of measuring, for the first time, the neutrinoless double-beta decay process with the EXO experiment.

Students at the M.Sc. and Ph.D. levels are offered a strong program of research in a challenging and rapidly advancing field. Short term master's projects are based mainly on instrumentation or data analysis conducted on campus, while Ph.D. research may involve an extended stay at one of the world's major research laboratories.

Nuclear Physics

Theoretical: Current research programs include transport equations for heavy ion collisions at intermediate energy; nuclear equation of state from heavy ion collisions; fragmentation at intermediate energy; electromagnetic probes in relativistic heavy ion collisions; effective Lagrangians for hadronic systems at finite temperature; and Quark-Gluon Plasma, QCD.

Experimental: Current research programs in experimental nuclear physics at McGill are focused on two main axes:

- The study of heavy-ion reactions at relativistic energies to determine the properties of nuclear matter at high temperatures and density. This program is being performed at the Brookhaven National Laboratory, and at the Large Hadron Collider facility at CERN.
- The study of ground state properties of unstable nuclei using laser spectroscopy techniques and ion traps. This work is being carried out using the Canadian Penning trap facility at the Argonne National Laboratory, at the accelerator ISOLDE (CERN), and the ISAC facility at TRIUMF.

Furthermore, the Nuclear Physics Group has an active in-house research program that applies the ion trap and laser techniques to the detection of trace quantities of material and contaminants, and to ion spectroscopy.

Condensed Matter Physics and Biophysics

Theoretical: Current research programs involve the nonequilibrium, ab-initio modelling of molecular and nanoelectronic systems and devices; the study of quantum effects in interacting mesoscopic electron systems; nonequilibrium phenomena in extended systems; and applications of statistical mechanics to problems in biophysics.

Experimental: Current research programs involve:

- the study of the time evolution of non-equilibrium systems via x-ray diffraction;
- fundamental quantum properties of strongly correlated systems at temperatures very near absolute zero;
- macromolecular interactions in living cells using single-photon and two-photon imaging;
• molecular electronics and nanoelectronic systems by scanning probe microscopy;
• dynamics and mechanical properties of soft matter systems and spatial organization and dynamics in living cells;
• mechanical behaviour of very small systems by high-resolution force microscopy;
• electronic properties that emerge at the limits of miniaturization and quantum computing;
• nuclear methods to study interactions in magnetic materials that lead to exotic magnetic ordering behaviour. This includes studies of novel materials such as carbon nanotubes, graphene, unconventional superconductors, quantum dots, heterostructures, amorphous systems, and spin glasses.

Astrophysics
Research in the astrophysics group covers a wide range of topics including cosmology, galaxy formation, high-energy astrophysics, and extrasolar planets. This involves observations at all wavelengths, from gamma rays and X-rays to sub-mm, infrared and radio, using international observatories in space and on the ground. Experimental groups at McGill are involved in development and operation of ground-based high-energy gamma-ray observatories, and cosmic microwave background experiments. Theoretical work includes studies of how astrophysics and observational cosmology can experimentally determine the most important properties of dark matter and dark energy, studies of the diverse physics of neutron stars, and extrasolar planet formation.

Nonlinear Variability and Atmospheric Physics
This group studies nonlinear dynamical processes in the atmosphere and other geophysical systems, especially those associated with turbulent, chaotic, and extremely variable behaviour. Emphasis is placed on multifractal analysis and modelling as well as the development of new theories and techniques covering wide ranges of scale in time and space. Data from a variety of in situ and remotely sensed sources are used. This includes satellite data of the Earth's atmosphere and surface as well as high-quality precipitation data from the McGill Radar Weather Observatory.

Medical Radiation Physics
The Medical Physics Unit is a teaching and research unit concerned with the application of physics and related sciences in medicine, especially (but not exclusively) in radiation medicine; i.e., radiation oncology, medical imaging, and nuclear medicine. The Unit's facilities are available for students to undertake a Ph.D. in Physics administered through the Department of Physics with a research emphasis on medical physics supervised, funded, and hosted by Medical Physics Unit PIs (principal investigators).

The research interests of Unit members include various aspects of medical imaging, including:
• 3D imaging;
• the development of new imaging modalities;
• applications of imaging in radiation therapy such as radiation dosimetry and solid state;
• nuclear cardiology; and
• applications of radiation biology to therapy.

section 14.11.8.5: Master of Science (M.Sc.) Physics (Thesis) (45 credits)
This program provides a comprehensive introduction to the academic, research, and practical aspects of physics. The primary goal of this program is to provide students with unique opportunities to learn fundamental research techniques in experimental and/or theoretical research, and objectively synthesize information from scientific literature. Each M.Sc. student chooses their preferred major research area and research supervisor. Thesis work is available in a broad range of sub-disciplines (see departmental website for details). Students wishing to continue to our doctoral program have the option, with supervisor approval, of transferring directly to the Ph.D., waiving the M.Sc. thesis submission.

section 14.11.8.6: Doctor of Philosophy (Ph.D.) Physics
The doctoral program provides all the tools required for a competitive career in academic settings, as well as in industry or other fields. The multidisciplinary nature of the Department exposes students to a vast array of research interests and experimental or theoretical approaches. Graduate research activities leading to the presentation of a Ph.D. thesis involve original work, with distinct contributions to knowledge. Our graduate program offers training in a unique and multidisciplinary environment in Canada's top university and may involve an extended stay at one of the world's major research laboratories.

14.11.8.3 Physics Admission Requirements and Application Procedures
14.11.8.3.1 Admission Requirements
M.Sc.
We normally require a background that is equivalent to our: Bachelor of Science (B.Sc.) - Major Physics (60 credits).

Ph.D.
The normal requirement is an M.Sc. in Physics or equivalent, but exceptional students may be considered for direct entry to the Ph.D. program. On the recommendation of the Departmental Graduate Committee, fast-tracking from the M.Sc. program into the Ph.D. program may be granted after one year, if:
• the student has fulfilled the M.Sc. coursework requirements, or;
• the Committee determines that the student qualifies based on the student's academic record.

All students who transfer to the Ph.D. program are required to fulfil Ph.D. coursework requirements in addition to the courses taken as an M.Sc. candidate.
14.11.8.32 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

Financial Assistance

Financial assistance will be offered to all students at the time of acceptance, if applicable. For more information, please visit our finance page: www.physics.mcgill.ca/grads/finance.html.

14.11.8.32.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- 2 Letters of Reference
- Physics CV
- Personal Statement
- Thesis Abstract or Summary – optional
- GRE – recommended but not required

A list of supporting documentation required by the University can be found at www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents.

14.11.8.33 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Physics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Please note, the Ph.D. program with a research emphasis on medical physics only accepts students in Fall.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

14.11.8.4 Physics Faculty

Chair

P. Grutter

Director of Graduate Studies

T. Webb

Emeritus Professors

J. Barrette; M.Sc., Ph.D.(Montr.)
J.E. Crawford; B.A., M.A.(Tor.), Ph.D.(McG.)
S. Das Gupta; B.Sc., M.Sc. (Calc.), Ph.D.(McM.) (Macdonald Emeritus Professor of Physics)
N.B. de Takacsy; B.Sc., M.Sc. (Montr.), Ph.D.(McG.)
R. Harris; B.A.(Oxf.), Ph.D.(Sus.)
C.S. Lam; B.Sc.(McG.), Ph.D.(MIT)
D.G. Stairs; B.Sc., M.Sc.(Qu.), Ph.D.(Harv.) (Macdonald Emeritus Professor of Physics)
J.O. Strom-Olsen; B.A., M.S., Ph.D.(Camb.)
M.J. Zuckermann; M.A., D.Phil.(Oxf.), F.R.S.C.
Post-Retirement Professors

Z. Altounian; Ph.D.(McM.)
F. Buchinger; Ph.D.(Johannes Gutenberg)

Professors

R. Brandenberger; Dip.(ETH), A.M., Ph.D.(Harv.) (Canada Research Chair)
A. Clerk; B.Sc.(Tor.), Ph.D.(Cornell) (Canada Research Chair)
J. Cline; B.S.(Harvey Mudd), M.Sc., Ph.D.(Cal. Tech.)
F. Corriveau; B.Sc.(Laval), M.Sc.(Br. Col.), Ph.D.(ETH) (Affiliated I.P.P. Scientist)
C. Gale; B.Sc.(Ott.), M.Sc., Ph.D.(McG.) (James McGill Professor)
G. Gervais; B.Sc.(Sher.), M.Sc.(McM.), Ph.D.(N’western)
M. Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.), F.R.S.C. (James McGill Professor)
P. Grutter; Dip., Ph.D.(Basel), F.R.S.C. (James McGill Professor)
H. Guo; B.Sc.(Sichuan), M.Sc., Ph.D.(Pitt.), F.R.S.C. (James McGill Professor)
D. Hanna; B.Sc.(McG.), A.M., Ph.D.(Harv.) (Macdonald Professor of Physics)
S. Jeon; B.Sc.(Seoul National), M.Sc., Ph.D.(Wash.)
V. Kaspi; B.Sc.(McG.), M.A., Ph.D.(Princ.), F.R.S.C. (Canada Research Chair) (Lorne Trottier Chair in Astrophysics and Cosmology)
S. Lovejoy; B.Sc.(Camb.), Ph.D.(McG.)
N. Provatas; Ph.D.(McG.) (Canada Research Chair)
K. Ragan; B.Sc.(Alta.), Ph.D.(Geneva) (Macdonald Professor of Physics)
D.H. Ryan; B.A., Ph.D.(Dub.)
M. Sutton; B.Sc., M.Sc., Ph.D.(Tor.) (James McGill Professor) (Rutherford Professor)
P. Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.) (joint appt. with Chemistry)

Associate Professors

B. Coish; Ph.D.(Basel)
A. Cumming; B.A.(Camb.), Ph.D.(Calif., Berk.)
K. Dasgupta; M.Sc., Ph.D.(TIFR)
M. Dobbs; B.Sc.(McG.), Ph.D.(Vic., BC) (Canada Research Chair)
P. Francois; Ph.D.(Paris VII)
M. Hilke; B.Sc., M.Sc., Ph.D.(Geneva)
A. Maloney; B.S., M.S.(Stan.), Ph.D.(Harv.) (William Dawson Scholar)
W. Reisner; B.A.(Reed), Ph.D.(Princ.)
S. Robertson; B.Sc.(Calg.), M.Sc., Ph.D.(Vic., BC) (Affiliated I.P.P. Scientist)
R. Rutledge; B.Sc.(USC), Ph.D.(MIT)
B. Siwick; B.Sc., M.Sc., Ph.D.(Tor.) (Canada Research Chair) (joint appt. with Chemistry)
B. Vachon; B.Sc.(McG.), Ph.D.(Vic., BC)
A. Warburton; B.Sc.(Vic., BC), M.Sc., Ph.D.(Tor.)
T. Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

Assistant Professors

T. Brunner; Dip., Ph.D.(Munich)
S. Caron-Huot; B.Sc.(Laval), M.Sc., Ph.D.(McGill)
L. Childress; Ph.D.(Harv.) (Canada Research Chair)
D. Cooke; Ph.D.(Alta.)
**Assistant Professors**

N. Cowan; B.Sc.(McG.), Ph.D.(Wash.) (*joint appt. with Earth and Planetary Sciences*)

D. Haggard; B.Sc.(USF), M.Sc., Ph.D.(Wash.)

S. Leslie; Ph.D.(Calif., Berk.)

T. Pereg-Barnea; Ph.D.(Br. Col.)

J. Sankey; Ph.D.(Cornell) (*Canada Research Chair*)

**Associate Members**

M. Chacron (*Physiology*)

S. Devic (*Oncology*)

S. Enger (*Oncology*)

K. Gehring (*Biochemistry*)

P. Kambhampati (*Chemistry*)

A. Khadra (*Physiology*)

J. Kildea (*Medical Physics*)

I. Levesque (*Medical Physics*)

M. Mackey (*Physiology*)

J. Nadeau (*Biomedical Engineering*)

G.B. Pike (*MNI and Biomedical Engineering*)

E. Podgorsak (*Radiation Oncology*)

D. Rassier (*Kinesiology*)

D. Ronis (*Chemistry*)

J. Seuntjens (*Medical Physics*)

T. Szkopek (*Electrical and Computer Engineering*)

**Adjunct Professors**

F. Drolet, M. Dubé, O. Hernandez, G. Holder, B. Palmieri, G.B. Pike, V. Tabard Cossa

**Curator (Rutherford Museum and McPherson Collection)**

J. Barrette

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**14.11.8.5 Master of Science (M.Sc.) Physics (Thesis) (45 credits)**

**Thesis Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 690</td>
<td>24</td>
<td>M.Sc. Thesis</td>
</tr>
<tr>
<td>PHYS 692</td>
<td>6</td>
<td>Thesis Project</td>
</tr>
</tbody>
</table>

**Complementary Courses (15 credits)**

12 credits at the 500, 600, or 700 level.

3 credits at the 600 or 700 level:

Students with an appropriate background may request Departmental permission to substitute up to 6 credits chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 691</td>
<td>3</td>
<td>Thesis Preparation</td>
</tr>
<tr>
<td>PHYS 693</td>
<td>3</td>
<td>M.Sc. Research</td>
</tr>
</tbody>
</table>
Students must also successfully complete all the other normal requirements of Graduate and Postdoctoral Studies.

14.11.8.6 Doctor of Philosophy (Ph.D.) Physics

Thesis
A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses
Candidates must successfully complete two 3-credit graduate courses at the 600 level or above; one of these courses should be in the candidate's area of specialization. If the candidate completed two or more courses at the 600 level as part of the McGill Physics M.Sc. program, then one of these courses may be used as a substitute for one of the required courses. In all cases, candidates must also pass the Ph.D. preliminary examination (PHYS 700).

PHYS 700 (0) Preliminary Ph.D. Examination

14.11.9 Psychology

14.11.9.1 Location
Department of Psychology
2001 McGill College Avenue, 7th Floor
Montreal QC H3A 1G1
Canada
Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: gradsec@ego.psych.mcgill.ca
Website: www.mcgill.ca/psychology

14.11.9.2 About Psychology
The aim of the Experimental program is to provide students with an environment in which they are free to develop skills and expertise that will serve during a professional career of teaching and research as a psychologist. Coursework and other requirements are at a minimum. Success in the program depends on the student's ability to organize unscheduled time for self education. Continuous involvement in research planning and execution is considered a very important component of the student's activities. Students are normally expected to do both master’s and doctoral study.

M.A. and M.Sc. degrees may be awarded in Experimental Psychology, but only as a step to the Ph.D.—students undergo formal evaluation beginning with the submission of their master's requirements (thesis or fast-track paper) to enter Ph.D. 2.

The Clinical program adheres to the scientist practitioner model and as such is designed to train students for careers in university teaching or clinical research, and for service careers (working with children or adults in hospital, clinical, or educational settings). Most of our clinical graduates combine service and research roles. While there are necessarily many more course requirements than in the Experimental program, the emphasis is again on research training. There is no master’s program in Clinical Psychology; the Department offers direct entry to a doctoral degree for holders of an undergraduate degree, and students are expected to complete the full program leading to a doctoral degree.

Research interests of members of the Psychology Department include:

- animal learning;
- behavioural neuroscience;
- clinical;
- child development;
- cognitive science;
- health psychology;
- psychology of language;
- perception;
- quantitative psychology;
- social psychology;
- personality psychology.
Facilities for advanced research in a variety of fields are available within the Department itself. In addition, arrangements exist with the Departments of Psychology at the Montreal Neurological Institute and Hospital, Allan Memorial Institute, Douglas Mental Health University Institute, Jewish General Hospital, Montreal Children's Hospital, and the Montreal General Hospital, to permit graduate students to undertake research in a hospital setting.

**Note:** Many MUHC-affiliated hospitals and institutes are now located at the Glen site; further information is available on the [MUHC website](https://www.muhc.org/).

For inquiries about all programs and financial aid, and for application forms, contact the *Graduate Program Coordinator*, Department of Psychology.

**Ph.D. Option in Behavioural Neuroscience**

Information about this option is available from the Department and at [http://www.mcgill.ca/psychology/research-0/behavioral-neuroscience](http://www.mcgill.ca/psychology/research-0/behavioral-neuroscience).

**Ph.D. Option in Language Acquisition (LAP)**

Information about this option is available from the Department and at [www.psych.mcgill.ca/rap.html](http://www.psych.mcgill.ca/rap.html) and [www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities](http://www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities).

**Ph.D. Option in Psychosocial Oncology (PSO)**

A cross-disciplinary option in Psychosocial Oncology is offered within the existing Ph.D. program in Psychology. Information about this option is available from the Department and at [www.medicine.mcgill.ca/oncology/programs/programs_psychosocialoncology.asp](http://www.medicine.mcgill.ca/oncology/programs/programs_psychosocialoncology.asp) and [www.mcgill.ca/psychology/graduate/program-tracks/clinical/additional-program-opportunities](http://www.mcgill.ca/psychology/graduate/program-tracks/clinical/additional-program-opportunities).

**Arts > Graduate > Browse Academic Units & Programs > Psychology > section 3.11.20.5: Master of Arts (M.A.) Psychology (Thesis) (45 credits)**

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

**Science > Graduate > Browse Academic Units & Programs > Psychology > section 14.11.9.5: Master of Science (M.Sc.) Psychology (Thesis) (45 credits)**

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

**section 3.11.20.6: Doctor of Philosophy (Ph.D.) Psychology**

Please contact the Department for more information about this program.

**section 14.11.9.7: Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience**

The Ph.D in Psychology: Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise, the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes.

**section 14.11.9.8: Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition**

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

**section 14.11.9.9: Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology**

The Department of Oncology, in conjunction with the Ingram School of Nursing, the Department of Psychology and the School of Social Work, has developed the cross-disciplinary Psychosocial Oncology Option (PSOO). This option is open to doctoral students in the Ingram School of Nursing and in the Department of Psychology who are interested in broadening their knowledge of psychosocial issues in oncology.

**14.11.9.3 Psychology Admission Requirements and Application Procedures**

**14.11.9.3.1 Admission Requirements**

Admission to the graduate program depends on an evaluation of students' research interests and their aptitude for original contributions to knowledge and, if applicable, for professional contributions in the applied field.

The usual requirement for admission is an Honours or majors degree (B.A. or B.Sc.) in Psychology. This usually includes an introductory course plus twelve courses in psychology (each equivalent to three term hours). Courses in experimental psychology, the theoretical development of modern ideas in psychology,
and statistical methods as applied to psychological problems (equivalent to an introductory course) are essential. Applicants' knowledge of relevant biological, physical, and social sciences is considered. Students applying to the clinical program are advised to complete 42 specific undergraduate credits in psychology as specified by the Order of Psychologists of Quebec (Ordre des psychologues du Québec).

Applicants who hold a bachelor's degree but who have not met these usual requirements should consult the Graduate Program Director to determine which (if any) courses must be completed before an application can be considered. Students with insufficient preparation for graduate work may register as Special Students (undergraduate level) in the Faculty of Arts or the Faculty of Science, and follow an appropriate course of study. Such registration requires the permission of the Department but carries no advantage with respect to a student's eventual admission to graduate studies.

Applicants should note that the deadline for many scholarships and fellowships is about four months earlier than the application deadlines and that applications for scholarships and fellowships should be submitted through their home university.

Applicants who hold a bachelor's degree but who have not met these usual requirements should consult the Graduate Program Director to determine which (if any) courses must be completed before an application can be considered. Students with insufficient preparation for graduate work may register as Special Students (undergraduate level) in the Faculty of Arts or the Faculty of Science, and follow an appropriate course of study. Such registration requires the permission of the Department but carries no advantage with respect to a student's eventual admission to graduate studies.

All applicants must take the GRE General Test if they have studied in an English-speaking university. For those who have a psychology background, it is recommended to take the Subject component of the GRE. Applicants with little or no background in psychology are not required to submit scores on the Subject component of the GRE. Canadians who have not studied in an English-speaking university are not required to submit the GRE General Test and Subject component.

Note: Official transcripts need not be included as part of an application; they will only be requested once applicants are formally accepted into the program.

14.11.9.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > section 1.4.3: Application Procedures for detailed application procedures.

14.11.9.3.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:

- Three letters of reference
- Personal Statement
- Curriculum Vitae
- Graduate Record Examination (GRE) – See above for details.

14.11.9.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Psychology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Application Opening Dates</th>
<th>Application Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applicants</td>
<td>Non-Canadian citizens (incl. Special, Visiting &amp; Exchange)</td>
</tr>
<tr>
<td>Fall Term:</td>
<td>Sept. 15</td>
</tr>
<tr>
<td>Winter Term:</td>
<td>N/A</td>
</tr>
<tr>
<td>Summer Term:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

14.11.9.4 Psychology Faculty

Chair

J. Lydon

Graduate Program Director

D. Titone

Clinical Program Director

B. Ditto
Undergraduate Program Director

G. O'Driscoll

Emeritus Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)  
A.S. Bregman; M.A.(Tor.), Ph.D.(Yale)  
D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(Cornell)  
K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)  
F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)  
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)  
A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)  
R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) (E.P. Taylor Emeritus Professor of Psychology)  
P. Milner; B.Sc.(Leeds), M.Sc., Ph.D.(McG.)  
D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)  
Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)  
R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)  
J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)  
B. Sherwin; B.A., M.A., Ph.D.(C’dia) (Canada Research Chair in Hormones, Brain and Cognition)  
Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)  
D.M. Taylor; M.A., Ph.D.(W. Ont.)  
N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

Retired

Andrew G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)  
M.J. Mendelson; B.Sc.(McG.), M.A., Ph.D.(Harv.)

Professors

M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)  
I.M. Binik; B.A.(NYU), M.A., Ph.D.(Penn.)  
B. Ditto; B.S.(Iowa), Ph.D.(Ind.)  
B. Knauper; D.Phil.(Mannheim)  
R. Koestner; B.A., Ph.D.(Roch.)  
H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)  
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)  
J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)  
J. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (E.P. Taylor Professor of Psychology) (Canada Research Chair in Genetics of Pain)  
K. Nader; B.Sc., Ph.D.(Tor.) (James McGill Professor)  
D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)  
C. Palmer; B.Sc.(Mich.), M.Sc.(Rug.), Ph.D.(Cornell) (Canada Research Chair in Cognitive Neuropsychology Performance)  
M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)  
T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)  
M. Sullivan; B.A.(McG.), M.A., Ph.D.(C’dia)  
D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton)  
D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)
**Associate Professors**

J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)
M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)
G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) *(William Dawson Scholar)*
K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)
J. Ristic; B.A., M.A., Ph.D.(Br. Col.) *(William Dawson Scholar)*

**Assistant Professors**

R. Bagot; B.Sc.(S. Wales), Ph.D.(McG.)
J. Britt; B.A.(Colo.), Ph.D(Balt.)
C. Falk; B.Sc.(Wisc.), M.A., Ph.D.(Br. Col)
J. Flake; B.Sc.(NKU), M.A.(JMU), Ph.D.(Conn.)
O. Hardt; B.Sc., M.Sc.(Trier), Ph.D.(Ariz.)
E. Hehman; B.A.(Mass.), Ph.D.(Delaware)
L. Human; B.A., M.A., Ph.D.(Br. Col.)
R. Otto; B.Sc.(Calif.), Ph.D.(Texas)
S. Racine; B.Sc.(McG.), M.A., Ph.D.(Mich. St.)
M. Roy; B.Sc., Ph.D.(Montr.)
S. Sheldon; B.Sc.(Alta.), M.A., Ph.D.(Tor.)
D. Vachon; B.Sc.(Tor.), M.Sc., Ph.D.(Purd.)
A. Weinberg; B.A.(Wesl.), M.A., Ph.D.(Stony Brook) *(Canada Research Chair)*

**Lecturer**

P. Carvajal

**Professionals**

Rhonda Amsel; B.Sc., M.Sc.(McG.) *(Associate)*
Ian F. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) *(Assistant)*
Judith LeGallais; B.A., M.A., Ph.D.(McG.) *(Faculty Lecturer)*
Jennifer Russell; B.A., Ph.D.(McG.) *(Assistant)*

**Associate Members**

*Anesthesia*: T. Coderre

*Douglas Mental Health University Institute Research Centre*: S. King, N. Rajah, H. Steiger

*Jewish General Hospital*: B Thomps, P. Zelkowitz

*McGill Vision Research Centre*: C. Baker, R. Hess, F.A.A. Kingdom, K. Mullen


*Schulich School of Music*: S. MacAdams

*Psychiatry*: D. Dunkley, F. Elgar, M. Leyton

**Adjunct Professors**


14.11.9.5 Master of Science (M.Sc.) Psychology (Thesis) (45 credits)

**Thesis Courses (27 credits)**
### Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>PSYC 601</td>
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<td>Master's Comprehensive</td>
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<td>PSYC 650</td>
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</tr>
<tr>
<td>PSYC 651</td>
<td>3</td>
<td>Advanced Statistics 2</td>
</tr>
<tr>
<td>PSYC 660D1</td>
<td>3</td>
<td>Psychology Theory</td>
</tr>
<tr>
<td>PSYC 660D2</td>
<td>3</td>
<td>Psychology Theory</td>
</tr>
</tbody>
</table>

### 14.11.9.6 Doctor of Philosophy (Ph.D.) Psychology

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

### Required Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 701</td>
<td>0</td>
</tr>
</tbody>
</table>

### Complementary Courses

12-24 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 710</td>
<td>3</td>
<td>Comparative and Physiological Psychology 1</td>
</tr>
<tr>
<td>PSYC 711</td>
<td>3</td>
<td>Comparative and Physiological Psychology 2</td>
</tr>
<tr>
<td>PSYC 712</td>
<td>3</td>
<td>Comparative and Physiological Psychology 3</td>
</tr>
<tr>
<td>PSYC 713</td>
<td>3</td>
<td>Comparative and Physiological Psychology 4</td>
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<td>PSYC 714</td>
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<td>PSYC 715</td>
<td>3</td>
<td>Comparative and Physiological Psychology 6</td>
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<tr>
<td>PSYC 718</td>
<td>3</td>
<td>Learning and Motivation</td>
</tr>
<tr>
<td>PSYC 722</td>
<td>3</td>
<td>Personality and Social Psychology</td>
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<tr>
<td>PSYC 723</td>
<td>3</td>
<td>Personality and Social Psychology</td>
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<tr>
<td>PSYC 724</td>
<td>3</td>
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<tr>
<td>PSYC 725</td>
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<td>PSYC 727</td>
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<tr>
<td>PSYC 728</td>
<td>3</td>
<td>Ethics and Professional Issues</td>
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<tr>
<td>PSYC 729</td>
<td>3</td>
<td>Theory of Assessment</td>
</tr>
<tr>
<td>PSYC 730</td>
<td>3</td>
<td>Clinical Neuroscience Methods</td>
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<tr>
<td>PSYC 732</td>
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<td>Clinical Psychology 1</td>
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<tr>
<td>PSYC 733</td>
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<td>Clinical Psychology 2</td>
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### Developmental Psychology and Language

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PSYC 734</td>
<td>3</td>
<td>Developmental Psychology and Language</td>
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<tr>
<td>PSYC 735</td>
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<td>Developmental Psychology and Language</td>
</tr>
<tr>
<td>PSYC 736</td>
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### Perception and Cognition

<table>
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<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PSYC 740</td>
<td>3</td>
<td>Perception and Cognition</td>
</tr>
<tr>
<td>PSYC 741</td>
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<td>PSYC 742</td>
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<td>PSYC 743</td>
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<td>PSYC 744</td>
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### Quantitative and Individual Differences

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<tbody>
<tr>
<td>PSYC 746</td>
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<td>Quantitative and Individual Differences</td>
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<tr>
<td>PSYC 747</td>
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<td>PSYC 748</td>
<td>3</td>
<td>Quantitative and Individual Differences</td>
</tr>
<tr>
<td>PSYC 749</td>
<td>3</td>
<td>Quantitative and Individual Differences</td>
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</table>

### Psychotherapy and Behaviour Change

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 752D1</td>
<td>3</td>
<td>Psychotherapy and Behaviour Change</td>
</tr>
<tr>
<td>PSYC 752D2</td>
<td>3</td>
<td>Psychotherapy and Behaviour Change</td>
</tr>
<tr>
<td>PSYC 753</td>
<td>3</td>
<td>Health Psychology Seminar 1</td>
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<td>Health Psychology Seminar 2</td>
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<tr>
<td>PSYC 755</td>
<td>3</td>
<td>Health Psychology Seminar 3</td>
</tr>
<tr>
<td>PSYC 756</td>
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<td>Health Psychology Seminar 4</td>
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0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 650</td>
<td>3</td>
<td>Advanced Statistics 1</td>
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<tr>
<td>PSYC 651</td>
<td>3</td>
<td>Advanced Statistics 2</td>
</tr>
<tr>
<td>PSYC 660D1</td>
<td>3</td>
<td>Psychology Theory</td>
</tr>
<tr>
<td>PSYC 660D2</td>
<td>3</td>
<td>Psychology Theory</td>
</tr>
</tbody>
</table>

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

### Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

**NEW PROGRAM**

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfill similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

#### Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field of Behavioural Neuroscience and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

#### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 701</td>
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<td>Doctoral Comprehensive Examination</td>
</tr>
<tr>
<td>PSYC 781</td>
<td>3</td>
<td>Behavioural Neuroscience Special Topics</td>
</tr>
<tr>
<td>PSYC 782</td>
<td>3</td>
<td>Behavioural Neuroscience Advanced Seminar</td>
</tr>
</tbody>
</table>
Complementary Courses
6-18 credits
6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

- PSYC 650 (3) Advanced Statistics 1
- PSYC 651 (3) Advanced Statistics 2
- PSYC 660D1 (3) Psychology Theory
- PSYC 660D2 (3) Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

14.11.9.8 Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

- LING 710 (2) Language Acquisition Issues 2
- PSYC 701 (0) Doctoral Comprehensive Examination
- PSYC 709 (2) Language Acquisition Issues 1
- SCSD 712 (2) Language Acquisition Issues 4

Complementary Courses
15-32 credits
12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

- PSYC 710 (3) Comparative and Physiological Psychology 1
- PSYC 711 (3) Comparative and Physiological Psychology 2
- PSYC 712 (3) Comparative and Physiological Psychology 3
- PSYC 713 (3) Comparative and Physiological Psychology 4
- PSYC 714 (3) Comparative and Physiological Psychology 5
- PSYC 715 (3) Comparative and Physiological Psychology 6
- PSYC 718 (3) Learning and Motivation
- PSYC 722 (3) Personality and Social Psychology
- PSYC 723 (3) Personality and Social Psychology
- PSYC 724 (3) Personality and Social Psychology
- PSYC 725 (3) Personality and Social Psychology
- PSYC 727 (3) Personality and Social Psychology
- PSYC 728 (3) Ethics and Professional Issues
- PSYC 729 (3) Theory of Assessment
- PSYC 730 (3) Clinical Neuroscience Methods
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<td>LING 555</td>
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<td>LING 590</td>
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<td>Advanced Seminar: Experimental 1</td>
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<td>LING 752</td>
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<td>PSYC 735</td>
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<tr>
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<tr>
<td>SCSD 632</td>
<td>3</td>
<td>Phonological Disorders: Children</td>
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<tr>
<td>SCSD 633</td>
<td>3</td>
<td>Language Development</td>
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<tr>
<td>SCSD 637</td>
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At least 3 credits selected from the following list:

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<td>Second Language Learning</td>
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<td>EDSL 624</td>
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<td>LING 751</td>
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<td>Advanced Seminar: Experimental 1</td>
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<tr>
<td>SCSD 637</td>
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<td>Developmental Language Disorders 1</td>
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</table>
SCSD 643 (3) Developmental Language Disorders 2
SCSD 652 (3) Advanced Research Seminar 1
SCSD 653 (3) Advanced Research Seminar 2
SCSD 654 (3) Advanced Research Seminar 3

0-2 from the following:
EDSL 711 (2) Language Acquisition Issues 3

0-3 credits of statistics from the following list:
EDPE 676 (3) Intermediate Statistics
EDPE 682 (3) Univariate/Multivariate Analysis
LING 620 (3) Experimental Linguistics: Methods
PSYC 650 (3) Advanced Statistics 1
PSYC 651 (3) Advanced Statistics 2

Students who have taken an equivalent course in statistics will be deemed to have satisfied this requirement for the Language Acquisition Option.

These 3 credits are only required for students who have not previously taken an equivalent course in statistics.

0-12 credits from the following (students without a McGill master's degree need to take all 12 credits):
PSYC 650 (3) Advanced Statistics 1
PSYC 651 (3) Advanced Statistics 2
PSYC 660D1 (3) Psychology Theory
PSYC 660D2 (3) Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

14.11.9.9 Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the PSO coordinating committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)
NUR2 705 (3) Palliative Care
NUR2 783 (3) Psychosocial Oncology Research
PSYC 701 (0) Doctoral Comprehensive Examination

One graduate seminar each term during Year 2 and Year 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily require an examination in a foreign language; however, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.
Note: If the student has a non-McGill master's then the following courses are also required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PSYC 650</td>
<td>Advanced Statistics 1</td>
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<td>PSYC 651</td>
<td>Advanced Statistics 2</td>
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<tr>
<td>PSYC 660D1</td>
<td>Psychology Theory</td>
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**Complementary Course (3 credits)**

One of the following courses:

<table>
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<tbody>
<tr>
<td>PSYC 507</td>
<td>Emotions, Stress, and Illness</td>
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<tr>
<td>PSYC 753</td>
<td>Health Psychology Seminar 1</td>
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<tr>
<td>SWRK 609</td>
<td>Understanding Social Care</td>
</tr>
<tr>
<td>SWRK 668</td>
<td>Living with Illness, Loss and Bereavement</td>
</tr>
</tbody>
</table>

### 14.11.10 Redpath Museum

#### 14.11.10.1 Location

Redpath Museum  
859 Sherbrooke Street West  
Montreal QC H3A 0C4  
Canada  
Telephone: 514-398-4086  
Fax: 514-398-3185  
Email: redpath.museum@mcgill.ca  
Website: www.mcgill.ca/redpath

#### 14.11.10.2 About Redpath Museum

The Redpath Museum is a unique interdisciplinary unit within the Faculty of Science offering graduate training in research devoted to biodiversity, ecology, conservation biology, and evolutionary biology, leading to M.Sc. and Ph.D. degrees. It is an institution with extensive collections of ancient and modern organisms, minerals, and cultural artifacts. Research and teaching are centred on collections-based study, object-oriented investigation, and fieldwork. The Museum has a unique public engagement mission with large exhibit galleries and a vibrant outreach program.

#### 14.11.10.3 Redpath Museum Admission Requirements and Application Procedures

**14.11.3.1 Admission Requirements**

The Redpath Museum does not have its own graduate programs. All graduate students of the professors in the Redpath Museum have affiliations with either Biology, Earth and Planetary Sciences, Anthropology, Natural Resource Sciences, or Education. Admission requirements are subject to those home departments' regulations.

**14.11.10.3.2 Application Procedures**

Students in the Redpath Museum may enrol in McGill's Department of section 14.11.2: Biology or other units, including the Department of section 14.11.5: Earth and Planetary Sciences, the Department of section 3.11.1: Anthropology, the Department of section 2.11.7: Natural Resource Sciences, or the Faculty of Education. Anyone interested should contact the unit concerned.

**14.11.10.3.3 Application Dates and Deadlines**

For more information, please contact the Graduate Program Coordinator in the department you are interested in.

#### 14.11.10.4 Redpath Museum Faculty

**Director**

Hans C.E. Larsson
**Emeritus Professor**
Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

**Professors**
David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F.L.S.
Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) *(joint appt. with Biology)*
Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) *(joint appt. with McGill School of Environment)*

**Associate Professors**
Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.)
Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

**Assistant Professor**
Rowan Barrett; B.Sc.(Guelph), M.Sc.(McG.), Ph.D.(Br. Col.) *(CRC Tier 2 Chair in Biodiversity Science)*

**Associate Members**
*Biology*: Graham A.C. Bell, Lauren Chapman
*Chemistry*: David N. Harpp *(Tomlinson Chair in University Science Teaching)*
*Earth & Planetary Sciences*: Jeanne Paquette
*McGill School of Environment*: Colin Chapman

**Adjunct Professors**
Robert Holmes, Henry M. Reiswig, Michael Woloch