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

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3. Students are responsible for informing themselves of the University's procedures, policies and regulations, and the specific requirements associated with the degree, diploma, or certificate sought.

4. All students registered at McGill University are considered to have agreed to act in accordance with the University procedures, policies and regulations.

5. Although advice is readily available on request, the responsibility of selecting the appropriate courses for graduation must ultimately rest with the student.

6. Not all courses are offered every year and changes can be made after publication. Always check the Minerva Class Schedule link at https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched for the most up-to-date information on whether a course is offered.

7. The academic publication year begins at the start of the Fall semester and extends through to the end of the Winter semester of any given year. Students who begin study at any point within this period are governed by the regulations in the publication which came into effect at the start of the Fall semester.

8. Notwithstanding any other provision of the publication, it is expressly understood by all students that McGill University accepts no responsibility to provide any course of instruction, program or class, residential or other services including the normal range of academic, residential and/or other services in circumstances of utility interruptions, fire, flood, strikes, work stoppages, labour disputes, war, insurrection, the operation of law or acts of God or any other cause (whether similar or dissimilar to those enumerated) which reasonably prevent their provision.

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1 University Regulations and Resources

2 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.

2.1 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.

2.2 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.

2.2.1 Full-Time Students

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

2.2.2 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.

2.2.3 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.

2.2.4 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 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 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.

2.2.5 Thesis Evaluation Students

Students who have completed the residency requirements for their graduate thesis program and who have submitted their initial thesis to Graduate and Postdoctoral Studies by the April 15, August 15, or December 15 initial thesis submission deadlines will automatically be registered in "Thesis Evaluation" once they have registered on Minerva. 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 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;
- to be eligible for University services;
- to be eligible for funding;
- to be 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.

2.2.6 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.

2.2.7 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.

2.2.8 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.

2.2.9 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).

### 2.2.10 Non-Resident Status

Departments may permit or require candidates to spend one session at another institution; it is understood that this session must be one of full-time work, and that the institution selected must be able to provide expert supervision and facilities for research appropriate to the candidate, in the field selected.

Permission to spend a required year of residence at another university must be obtained **before** the beginning of the session in which the student will be absent. A program of the work projected and particulars of the institution selected must be sent, accompanied by a letter from the Chair of the department, to Enrolment Services for approval. Permission is only granted to students who have already completed one full-time term at McGill.

The student will be required to register and pay the normal full-time McGill tuition fee less any tuition fee payable to the host institution. Other student-related fees are not levied and the ID card is not validated.

Students participating in a formal exchange program must register and pay full-time tuition including other student-related fees. The ID card is not validated.

### 2.2.11 Leave of Absence Status

**Graduate and Postdoc 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](http://library.mcgill.ca/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.
- 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.

**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 program requirements in the eCalendar.

**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/students-postdocs/accepting-maintaining-awards#poli](#); see information on the “Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

**Procedure:**

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/students/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.

**2.2.12 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.
2.2.13 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.

2.2.14 Quebec Inter-University Transfer Agreement: McGill Students

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

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

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

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

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

You must initiate an online Quebec Inter-University Transfer (IUT) application to request the required authorizations at www.mcgill.ca/students/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.

2.2.15 Quebec Inter-University Transfer Agreement: Visiting IUT Students

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

If you are a student at another Quebec university and you want to take courses at McGill using the Quebec Inter-University Transfer (IUT) agreement, you must initiate an online application to request the required authorizations at www.mcgill.ca/students/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 the eCalendar under University Regulations and 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.

2.3 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.

2.3.1 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 Tuesday, April 8, 2014 and Thursday, August 14, 2014.

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 www.mcgill.ca/minerva and register for REGN RCGR (the Registration Confirmation course) in both the Fall (CRN 2334) and Winter (CRN 2262) terms.

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

Newly-Admitted Students:
New students entering in September 2014 register on Minerva between Tuesday, July 8, 2014 and Thursday, August 14, 2014. Students will be charged a late registration fee during the late registration period. To avoid the late registration fee students must access www.mcgill.ca/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 2015 register on Minerva between Tuesday, December 2, 2014 and Monday, January 5, 2015. 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 www.mcgill.ca/minerva and register for REGN RCGR (the Registration Confirmation course) in the Winter (CRN 2262) term. 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.

2.3.2 Fee Policies Related to Registration

Refer to the eCalendar under University Regulations and Resources > Graduate > section 9: Fees; particular attention should be paid to section 9.8: Fees and Withdrawal from the University and section 9.9.1: Overdue Accounts.

2.3.3 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 at 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 15th withdrawal date. Students in thesis programs, who at the end of the Winter term are continuing in their programs, are expected to devote the summer to research and are considered "Continuing Students."
2.3.4 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.

2.3.5 Courses Taken as Extra to a Program

The McGill Writing Centre (www.mcgill.ca/mwc) offers several courses in academic and scholarly communication. Most of these courses form part of the Graphos program for graduate students and postdoctoral fellows. These 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, and CEAP 643 may be counted). Before registering, please consult the Graphos website (www.mcgill.ca/graphos).

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 (www.mcgill.ca/redpath).

The courses are:

CESL 500 ESL: RESEARCH ESSAY AND RHETORIC (3) (3 hours) (Formerly ESLN 500.) (Prerequisite: CESL 400 or ESLN 400 or placement test.) (Restriction: Not open to students who have taken CEAP 250 or EAPR 250 or EFRL 250 or ESLN 500.) (Open only to students in degree programs.) For the near-native speaker of English. Principles and uses of academic research, genres, rhetorical strategies, and editing skills.

CESL 641 FUNDAMENTALS OF ACADEMIC WRITING IN ENGLISH (1) (13 hours) (Intended for non-native speakers of English.) Key strategies for graduate students across disciplines whose first language is not English: writing scholarly texts for structure; learning to apply these structures in writing assignments; developing vocabulary building strategies; identifying and practicing nuances of scholarly English syntax. Self-editing techniques; review of English grammar and mechanics. Audio feedback and multiple drafts.

CEAP 642 CORNERSTONES OF ACADEMIC WRITING (1) (13 hours) Four cornerstones of academic writing: audience, purpose, organization, and style. Identifying and targeting audiences, clarifying the purposes served by different writing projects, organizing ideas, and developing mastery of rhetorical and stylistic conventions. Applying these practices to genres of academic writing. Audio feedback and multiple drafts.

CEAP 643 LITERATURE REVIEWS AND SCHOLARLY NICHES (1) (13 hours) The literature review: understanding and practicing the techniques of reading, summarizing, critiquing and synthesizing the scholarly literature on a particular topic. Creating and occupying a niche. Audio feedback and multiple drafts.

CESL 651 PRONUNCIATION FOR EFFECTIVE COMMUNICATION (1) (13 hours) (Intended for non-native speakers of English.) Developing pronunciation skills for effective communication in academic settings with emphasis on features of pronunciation that most affect intelligibility. Oral practice, and various forms of feedback and assessment, such as instructor, peer and self-assessment.

CEAP 652 FUNDAMENTALS OF ACADEMIC PRESENTATIONS (1) (13 hours) Developing and delivering academic presentations, with emphasis on how to structure content, critically evaluate content, and use rhetorical devices to enhance clarity. Oral practice, and various forms of feedback and assessment, such as instructor, peer, and self-assessment.

REDM 610 WRITING SCIENCE ARTICLES 1 (3) (Prerequisite: Permission of instructor.) (Restrictions: Restricted to graduate students in the Faculty of Science; graduate students from other faculties considered, space permitting. Enrolment is limited to 12 students. The language of instruction is English and it is not intended as an ESL course. Course is graded pass/fail.) Principles and techniques for clear scientific writing with an emphasis on how to transform complex ideas into direct and precise ones by explaining research to peers and writing for interdisciplinary audiences.

REDM 710 WRITING SCIENCE ARTICLES 2 (3) (Prerequisite: Permission of instructor.) (Restrictions: Restricted to Ph.D. students in the Faculty of Science; M.Sc. students from the Faculty of Science and Ph.D. students from other faculties considered, space permitting. Enrolment is limited to 12 students. The language of instruction is English and it is not intended as an ESL course. Course is graded pass/fail.) Skills for writing and publishing scientific articles, including peer-reviewed manuscripts and short, critical reviews of published articles. Topics include techniques for developing logical arguments and writing publishable manuscripts.

2.3.6 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.

2.3.7 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.

In exceptional cases, a student who wishes to submit a thesis, or to complete outstanding degree requirements, after withdrawal may do so only on the recommendation of the department concerned. A graduate application must be submitted by stated deadlines and readmission fees will apply. The final decision rests with Enrolment Services.
By annual registration, all doctoral candidates may maintain their connection with the University for four years after completing their residence requirements. The object of these regulations is to encourage candidates to complete their theses and qualify for their degree without undue delay.

*Council of the FGSR - February 2, 1996*

### 2.3.8 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 2.10: Failure Policy.

Any student who withdraws from the University must complete a Request for a University Withdrawal form available at [www.mcgill.ca/students/records/forms](http://www.mcgill.ca/students/records/forms). Fees will then be refunded according to the conditions outlined in section 2.4.5: Course Change Period and in section 2.6: Course Withdrawal.

### 2.3.9 Late Registration

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

**Returning Students:** You may register late via Minerva from Friday, August 15 until and including Tuesday, September 16, 2014.

**New, Readmitted, and Returning Students (Fall):** You may register late via Minerva from Friday, August 15 until Tuesday, September 16, 2014.

**New and Readmitted Students (Winter):** You may register late via Minerva from Tuesday, January 6 until Tuesday, January 20, 2015.

**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.

### 2.4 Course Information and Regulations

Students are advised to also refer to the eCalendar under University Regulations and Resources > Graduate > Regulations > section 2.3: Registration and section 2.9: Student Records.

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

At the time this publication was finalized, new courses and modifications to some existing courses were under consideration. Students preparing to register are advised to consult Class Schedule on the web at [www.mcgill.ca/students/courses](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.

### 2.4.1 Course Information and Regulations: Class Schedule

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

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

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

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

### 2.4.2 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/students/records/transcripts/key](http://www.mcgill.ca/students/records/transcripts/key) in the section Grading and pre-2002 course numbering.

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

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

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

2.4.3 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 it is preferable that the work to be done is carried out over two, or three, terms. Under such circumstances, courses are identified by a two-character extension of the course number.

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

Courses with numbers ending in D1 and D2 are taught in two consecutive terms (most commonly Fall and Winter). Students must register for the same section of both the D1 and D2 components. When registering for a Fall term D1 course on Minerva, the student will automatically be registered for the Winter term D2 portion. No credit will be given unless both components (D1 and D2) are successfully completed in consecutive terms, e.g., Fall 2014 and Winter 2015.

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

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

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

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

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

Important Conditions for Multi-term Courses

1. Students must be registered for each component of the multi-term course. Students must ensure that they are registered in the same section in each term of the multi-term course.

2. Students must successfully complete each component in sequence as set out in the multi-term course. Credit is granted only at the end of the multi-term course; no credit is given for partial completion.

2.4.4 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 the eCalendar under University Regulations and Resources > Undergraduate > Student Records > Credit System.

2.4.4.1 Course Nomenclature in Program Descriptions

Required Courses: Mandatory courses that must be completed to fulfill 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.

2.4.5 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.

### 2.4.6 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."

### 2.5 Summer Studies

Detailed information about summer registration is available as of March at [www.mcgill.ca/gps/students/registration/dates](http://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](http://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 2.3.3: 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](http://www.mcgill.ca/students/records/forms) web form available at [www.mcgill.ca/students/records/forms](http://www.mcgill.ca/students/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](http://www.mcgill.ca/students/courses).

### 2.6 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.

#### 2.6.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 23, 2014

Deadline for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, October 14, 2014
- Multi-term courses that begin in Fall term: Tuesday, January 20, 2015

#### 2.6.2 Courses that Begin in the Winter Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, January 27, 2015

Deadline for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday, February 17, 2015
- Multi-term courses that begin in Winter term: Friday, May 15, 2015*
To withdraw from the University by the deadlines indicated below, you must drop or withdraw from all courses on Minerva (eCalendar term, you are withdrawn from the University. To return to your studies, you must follow the procedures for readmission. For more information, see the deadline dates at

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

After the withdrawal (without refund) deadline but before the end of the 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 the eCalendar under Faculties & Schools > Schulich School of Music.

2. It is solely your responsibility to initiate a course withdrawal on Minerva. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on Minerva is the official date of withdrawal, even if you had stopped attending lectures earlier.

3. You may still withdraw from a course after the Course Change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.

4. Fee refunds, if any, will be in accordance with section 9.8: Fees and Withdrawal from the University.

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:

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 2.7: University Withdrawal, and submit a Request for University Withdrawal form available at Student Records Forms. Please note that this form is sent to the Management of Academic Records Office, Enrolment Services.

2.7 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.

2.7.1 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.

2.7.2 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 or withdraw from your last Fall or Winter course by the end of the add/drop period of that term, you are withdrawn from the University. To return to your studies, you must follow the procedures for readmission. For more information, see the eCalendar under University Regulations and Resources > Undergraduate > Registration > : Readmission.

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

2.7.2.1 Fall Term

Deadline for University withdrawal with refund (minus $200 for returning and the registration deposit for new students): Tuesday, September 23, 2014
Deadline for University withdrawal without refund: Tuesday, October 14, 2014

### Winter Term

Deadline for University withdrawal with refund (minus $200 for returning and the registration deposit for new students): Tuesday, January 27, 2015

Deadline for University withdrawal without refund: Tuesday, February 17, 2015

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](http://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](http://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/students/records/forms](http://www.mcgill.ca/students/records/forms).

### Consequences of University Withdrawal

Any applicable fee refunds for the term of withdrawal will be according to [section 9.8: Fees and Withdrawal from the University](http://www.mcgill.ca/students/records/forms).

Once you withdraw, you must return your ID card to the University as stated in [section 2.18.1: Identification (ID) Cards](http://www.mcgill.ca/students/records/forms).

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

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

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

### 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>Grades</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>
</tbody>
</table>
Grading and Grade Point Averages (GPA)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<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:

- **IP** — in progress; (Master's Thesis Courses Only)
- **P** — 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.
- **HH** — to be continued; the use of this grade is reserved for major research projects, monographs and comprehensive examinations as designated for graduate studies.
- **J** — unexcused absence (failed); the student is registered for a course but does not write the final examination or do other required work; calculated as a failure in the TGPA and CGPA.
- **K** — incomplete; deadline extended for submission of work in a course or for the completion of a program requirement such as a Ph.D. language examination (maximum four months). (Need a K contract signed.)
- **KF** — 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.
- **KK** — 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.
- **KE or K*** — further extension granted with the approval of the Assistant Registrar, Records (maximum two years.) (Need a K contract signed.)
- **L** — 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.
- **LE or L*** — further deferral; permitted to defer examination for more than the normal period.
- **NA or &&** — grade not yet available.
- **NR** — no grade reported by the instructor (recorded by the Registrar).
- **Q** — course continued in next term (applicable only to courses taken pre-Fall 2002).
- **Satisfactory/Unsatisfactory** — Not used for graduate students.
- **W** — withdrew with approval; a course dropped, with permission, after the Course Change deadline; not calculated in TGPA or CGPA.
Other Grades:

**WF** — withdrew failing: a course dropped, with special permission in an exceptional case, after faculty deadline for withdrawal from course, the student's performance in the course at that stage being on the level of an F; not calculated in TGPA or CGPA. (Not used by Music and graduate students.)

**WL** — faculty permission to withdraw from a deferred examination (approved by the Assistant Registrar, Records); not calculated in TGPA or CGPA.

**W--** or **--** — no grade: student withdrew from the University, not calculated in TGPA or CGPA.

### 2.8.1 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 Music**: Option 1 is not available to students in the Schulich School of Music.

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 the eCalendar under University Regulations and 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](http://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](http://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 Assistant Registrar, Records.

### 2.9 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.

#### 2.9.1 Verification of Student Records: Unofficial Transcripts

Subject to section 2.9.3: Changes to Student Records after Normal Deadlines, you are responsible for verifying your academic record on Minerva ([www.mcgill.ca/minerva](http://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](http://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.
2.9.2 Verification of Student Records: Degree Evaluation

Degree Evaluation is a Minerva tool to help students and advisers compare the student's academic record with the requirements of a specific program. If you have access to Degree Evaluation on Minerva under the Student Records Menu (www.mcgill.ca/minerva) you can review your progress within your current program. Also, if you are considering a program change, you can generate a “what-if” comparison of your academic record with the requirements of another program.

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

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

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

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

2.9.3 Changes to Student Records after Normal Deadlines

2.9.3.1 Student Record Changes

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

2.9.3.2 Registrar Deadlines

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

2.9.3.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the Registrar deadlines listed in section 2.9.3.2: Registrar Deadlines, you must make a request in writing to your Associate Dean or Director, clearly explaining why you could not request the change before these dates. The Associate Dean or Director will review your request and make a decision. If your request is approved, the change is processed according to existing faculty and Enrolment Services student record procedures.

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

2.9.3.4 After Registrar Deadlines

The University does not normally consider a change requested after the Registrar deadlines listed in section 2.9.3.2: Registrar Deadlines have passed. In situations where there are “extraordinary personal” or “extraordinary academic” circumstances that could not have been foreseen prior to these deadlines, you may formally request a student record change from your Associate Dean or Director. If your Associate Dean or Director approves the request, the change will be processed according to faculty and Enrolment Services student record procedures. You may be assessed a fee for a change requested after Registrar deadlines. For all changes other than grade changes, the faculty will file full documentation that supports the extraordinary circumstances with Enrolment Services.

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

2.9.3.5 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.

2.9.3.6 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 2.17.1: Why Does McGill Collect Legal Documents from You? You may be assessed a fee for a change requested after the submission deadline.
2.10 Failure Policy

Students who have failed one course required by their department while registered as a graduate student may automatically write one supplemental examination, if the departmental policy permits, or retake that course or substitute an equivalent course. For the purposes of this policy, “required course” (including a complementary course) includes either a course required by the student's program of study, or a course that has been designated by the department for an individual student’s program of study. Students with any further failures in that course, including the supplemental, or a failure in any other course, will be required to withdraw from their program of study. When a student retakes a course, he/she is required to pay the fee charged for the course in question. Ph.D. students and master's students in thesis programs can also be required to withdraw from their program of study for documented lack of performance in research.

The failure policy does not pertain to the failure of comprehensive examinations, doctoral oral defenses, or thesis failures. In the case of a failed thesis or defense, the Thesis Failure Policy, detailed in the Thesis Guidelines, applies. In the case of a failed comprehensive examination, the Ph.D. Comprehensives Policy applies.

Senate, October 11, 2000.
Revised – GPS Council, February 10, 2003

Procedure to follow in cases of failure:

- In the event of a first failure:
  - The failing grade must be recorded on the student's record;
  - A letter should be sent from the GPD to the Management of Academic Records in Enrolment Services to indicate that as per the Failure Policy, the student can:
    - write a supplemental examination (if departmental policy permits);
    - OR
    - retake the failed course;
    - OR
    - substitute the failed course by completing an equivalent course.

- In the event of a second failure (including failure of a supplemental exam):
  - The second failing grade must be recorded on the student's record;
  - A letter should be sent from the GPD to the student (with a copy sent to the Management of Academic Records unit in Enrolment Services) to indicate that, as per the Failure Policy, the student will be withdrawn from the program;
  - Upon receipt of the GPD letter, 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 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, Assistant 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 2.8: Grading and Grade Point Averages (GPA) > “L - deferred” and “LE or L* - further deferral”) must be submitted to Graduate and Postdoctoral Studies with a departmental recommendation 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.
2.11 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 the eCalendar under Faculties & Schools > Summer Studies and Faculties & Schools > School of Continuing Studies. There are special language requirements for Faculty of Education students; see the eCalendar under Faculties & Schools > Faculty of Education.

**Note for Continuing Studies:** For English language programs, see the eCalendar under Faculties & Schools > School of Continuing Studies > Areas of Study > Languages > : The Language and Intercultural Communication Unit – English Language Programs.

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

**Note for Graduate and Postdoctoral Studies:** You should refer to the eCalendar under University Regulations and Resources > Graduate > Regulations > Registration > section 2.3.5: Courses Taken as Extra to a Program.

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.

2.13 Regulations Concerning Theses

The thesis submission guidelines contain important information regarding procedures and deadlines. Students who are in the process of writing a thesis must consult these thesis submission guidelines in order to adhere to University regulations concerning the submission of a thesis. Thesis submission guidelines and all the forms required for thesis submission are posted on the web at www.mcgill.ca/gps/thesis/guidelines.

Forms and guidelines are updated as procedures change. Students should keep informed of these changes by referring to the website.

Dates of submission of theses, convocations, etc., are available at www.mcgill.ca/importantdates.

2.14 Graduation

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

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

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

**Minimum Residency Requirement**

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

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

Graduate students should refer to the eCalendar under Faculties & Schools > Graduate > section 14.5: 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.

2.14.1 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 2.14: Graduation. The minimum CGPA required to graduate is 2.00, and you must be in Satisfactory Standing.

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

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

2.14.1.1 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/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.

2.14.2 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/students/graduation/convocation for information regarding convocation ceremonies.

2.14.3 Replacing a Diploma

2.14.3.1 Required Documents

Replacing a lost diploma
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.
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, enclose 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.

2.14.3.1 Making Your Request

There are two ways to submit a request:

1. Mail a written request to Service Point, along with the required supporting documents, and a certified cheque or money order in the amount of CAD$120 per diploma copy (includes trackable mail delivery) payable to McGill University.

2. Come to Service Point in person with the required documents. You can pay the replacement fee of CAD$120 per diploma copy (includes trackable mail delivery) via debit card. If you choose this option, please allow for appropriate delays in diploma printing and mailing time.

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

2.14.3.2 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).

2.14.3.2.1 Making Your Request

There are two ways to submit a request:

1. By mail:
   - Send 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 to Service Point;
   - Include a cover letter bearing your signature, full name, student number (if available), address, phone number, and number of copies required;
   - Indicate if you require certified translations, and if yes, what language (i.e., English or French);
   - Include a certified cheque or money order for the total amount payable to McGill University to cover the CAD$15 per copy fee;
   - Please allow at least 5–7 working days of processing time plus appropriate mailing time.

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, what language (i.e., English or French);
   - Pay the CAD$15 per copy fee via debit card.

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

2.14.4 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.

2.15 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.
2.15.1 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 et des Communautés culturelles and/or the Régie de l’assurance-maladie du Québec; Citizenship and Immigration Canada; the Ministère de l’Enseignement supérieur, de la Recherche, de la Science et de la Technologie 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’Enseignement supérieur, de la Recherche, de la Science et de la Technologie; 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 et des Communautés culturelles, 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’Enseignement supérieur, de la Recherche, de la Science et de la Technologie 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

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• 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.

2.15.2 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 free of charge for currently registered students and will mail them by regular mail to the address(es) indicated on the request made in Minerva. Alternatively, an official transcript may be picked up in person at Service Point in a sealed envelope.

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

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

For more information on requesting official transcripts refer to: section 2.15.4: 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 your unofficial transcript in Minerva for any holds.

2.15.3 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 2.15.4: Official Transcripts.

2.15.4 Official Transcripts

For more information on transcripts, applicable costs, delivery method, and processing time, see www.mcgill.ca/students/records/transcripts.

Currently Registered Students: Use Minerva (www.mcgill.ca/minerva) to order an official transcript at 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) at Student Menu > Student Records Menu > Request Printed/Official Transcript and will require login credentials. Please visit the IT Knowledgebase (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/students/records/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.

2.15.5 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.

For information on our current course numbering, see the eCalendar under University Regulations and Resources > Undergraduate > Registration > Course Information and Regulations > section 2.4.2: Course Numbering.
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).

2.16 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.

2.17 Submitting Legal Documents

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

2.17.1 Why Does McGill Collect Legal Documents from You?

Your tuition status at McGill will vary depending on your status in Canada. In order for us to determine your appropriate rate of tuition (Quebec, Canadian out-of-province, or international), we require legal documents confirming your current status. We also require these documents to confirm your valid citizenship/immigration status. To find out which documents you must provide—and when they are required—refer to: section 2.17.2: 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 issued by the Government of Quebec, and is obligatory for all students registered in a Quebec institution.

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

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

2.17.2 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).

<table>
<thead>
<tr>
<th>Quebec and Canadian Out-of-Province Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>You have applied to McGill directly from CEGEP or you already have a student record at McGill</td>
</tr>
<tr>
<td>- Usually no documents are required for your Canadian and/or Quebec status, based on McGill’s records or as confirmed by the Government of Quebec</td>
</tr>
<tr>
<td>You have applied to McGill from another Quebec university</td>
</tr>
<tr>
<td>- Proof of Canadian status is required: Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of</td>
</tr>
</tbody>
</table>
Quebec and Canadian Out-of-Province Students

You were born in Quebec

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

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

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

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

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

International Students

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

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

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

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

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

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

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

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

Note 5: You can find links to download and print the Permanent Code Data and Attestation of Quebec Residency forms at www.mcgill.ca/legaldocuments/forms.
2.17.2.1 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-information/tuition-fee-exemptions](http://www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions)).

2. **Out-of-province Tuition Supplement Exemptions** – Non-Quebec Canadian students in the following categories are exempted from out-of-province tuition supplements (details at [www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions](http://www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions)):
   - Students in a Ph.D. program
   - Students in a Post-Graduate Medical Education program: Medical Residents, Clinical Fellows, Clinical Research Fellows, Research Fellows
   - Students registered full-time in the Masters in French (Maîtrise en français). The exemption begins at the moment the student registers in the program, without retroactive effect.

3. **International Students Eligible for Fee Exemptions Based on Legal Status in Canada** – Students with one of the following statuses may be exempt from International Supplements (certain categories may be assessed at the Canadian tuition rate; full details regarding eligibility criteria are listed at [www.mcgill.ca/legaldocuments/exemption](http://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](http://www.mcgill.ca/legaldocuments/exemption))

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

Note that this information may be subject to change.

2.17.3 Has McGill Received Your Documents?

2.17.3.1 Quebec/Canadian/International Fees and Immigration Status

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

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

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

2.17.3.2 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 2.17.2: 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.

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

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

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

International students who have not provided their valid immigration documents to McGill may be de-registered.
If your tuition status is changed and your fees are reduced as a result of the document review process, McGill will waive the difference on any accumulated late payment or interest charges.

### 2.17.5 Where Do I Send My Documents?

You must send in all your documents after you have been accepted to McGill but before the start of classes. **Do not send originals.** Email 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](http://www.mcgill.ca/legaldocuments) for further details.

**By Email:**

Follow these steps to submit your legal documents electronically.

1. **Save the attached file in an accepted format.**
   - Standard PDF (.pdf) – encrypted PDFs will not be accepted.
   - Tagged image format (.tif, .tiff for scanned images).

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

2. **Ensure that the resolution used is at least 300 dpi (dots per inch) for an electronic replica (scan) of documentation (e.g., a scan of your birth certificate).**

   The preferred file size is 100KB per image.

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

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

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

**By Mail or Courier:**

McGill University  
Service Point  
3415 McTavish St.  
Montreal, Quebec H3A 0C8  
CANADA

**In Person:**

*Service Point*  
3415 McTavish Street  
Montreal, Quebec H3A 0C8

If there is a problem with your documents, contact:

**Telephone:** 514-398-7878  
**Email:** [http://webforms.mcgill.ca/servicepoint/request.asp](http://webforms.mcgill.ca/servicepoint/request.asp)

### 2.17.5.1 For the School of Continuing Studies

**By Mail or in Person:**

McGill University  
The School of Continuing Studies, Client Services Office  
688 Sherbrooke Street West  
Suite 1199  
Montreal, Quebec H3A 3R1

**By Fax:**

514-398-2650

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

**Telephone:** 514-398-6200  
**Email:** info.conted@mcgill.ca; legaldocuments.conted@mcgill.ca
2.18 Identification and Personal Information

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

2.18.1 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.

To receive your ID card you must be a registered student, while also providing your Permanent Code information and proof of legal status in Canada (for a list of acceptable documents, see section 2.17.2: What Documents Does McGill Need from You?).

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

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

- New students must be registered for at least one course to obtain an ID card.
- You must allow 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 $25 replacement fee.
- 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 Area Access Manager Contact List on the Security Services website.

**ID Card Schedule for the Downtown Campus**

The locations and opening hours of ID card centres can be found on the Student Information website at [www.mcgill.ca/students/records/id](http://www.mcgill.ca/students/records/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 at any time in order to obtain a replacement card.

**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.
Closed June 23, 24, 30, and July 1

**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.

2.18.2 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.

2.18.3 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/students/records/address.

Please see the Preferred First Name FAQ for more information.

2.18.4 Verification of Name

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

Note that you cannot change your legal name via Minerva. Requests for such changes must be made by presenting official documents (see section 2.18.2: Legal Name and section 2.18.3: Preferred First Name) in person at Service Point, 3415 McTavish Street, Montreal QC H3A 0C8.

Note for Continuing Studies: Requests for such changes must be made by presenting official documents (see section 2.18.2: Legal Name) in person at the Client Services Office, School of Continuing Studies.

2.18.5 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, you must go in person (as soon as possible) to Service Point, 3415 McTavish Street, Montreal QC H3A 0C8. Macdonald campus students can request changes in person at the Student Affairs Office, Laird Hall, Room 106.

Note for Continuing Studies: If you need to change important personal information that requires the University to verify official documents, such as a change to your name or citizenship, or a correction of your birth date, you must go in person (as soon as possible) to the School of Continuing Studies Client Services Office. Such changes can only be made in person at the School of Continuing Studies, Client Services Office, 688 Sherbrooke Street West, Room 1199.

2.19 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 choose to forward University email to another email mailbox, it is your responsibility to ensure that the alternate email mailbox is valid.

You should read and familiarize yourself with the policies on Responsible Use of McGill Information Technology Resources and Email Communications with Students, found under Information Technology on the University Secretariat website at www.mcgill.ca/secretariat/policies/informationtechnology. For more information on email for students, refer to www.mcgill.ca/it and see section 10: For your Information Technology (IT) needs.

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.

2.20 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.

2.20.1 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/secretariat/policies/informationtechnology.

2.20.2 Non-Smoking Policy

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

2.21 Student Health & Insurance

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

2.21.1 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 or by calling the Student Health Service at 514-398-6017.

2.21.2 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 Plan.
Coverage Form and pick up an International Health Insurance card from Service Point, Downtown campus or Student Services, Centennial Centre, Macdonald campus upon your arrival at McGill University. For details on the health insurance plan and information concerning rates, consult the ISS website.

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 can be submitted either in person at Service Point (McLennan Library Building, 3415 McTavish St., Montreal QC H3A 1Y1), or scanned and emailed to 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
Website: 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.

2.21.3 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 will be automatically enrolled in the applicable Students' Society’s (SSMU, MCSS, or PGSS) supplemental Health and Dental Plans. For details on fees, change of coverage dates, and what is covered by the plans, refer to www.ihaveaplan.ca, or contact:

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.aseq.com

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)
425 Boulevard de Maisonneuve O., Suite 300
Montreal QC H3A 3G5
Telephone: 514-864-3411
Website: www.ramq.gouv.qc.ca/en/pages/home.aspx

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: 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). Students without valid Canadian Medicare, please see section 2.21.2: Health Insurance – International Students. In 2014–2015, the cost of this plan is $419.06 (single coverage). 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 www.ihaveaplan.ca/pgss.

2.21.4 Special Medical Needs

If you have special medical needs, have your physician submit appropriate information, on a confidential basis, directly to the Student Health Service; see section 8.2: Student Services – Downtown Campus or www.mcgill.ca/studenthealth/see-doctor for contact information on the Downtown campus, and see www.mcgill.ca/macdonald-studentservices/feeling-sick for Macdonald campus.
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

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

myMcGill

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

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

Systems that you can access through the portal are:

- Athletics
- Classroom A/V instructions
- Exchange (email)
- FAMIS
- 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://mymcgyll.mcgill.ca. Sign in with your McGill Username and McGill Password.

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.

2.24.1 Location
3415 McTavish Street (corner Sherbrooke)
Montreal QC H3A 0C8
Opening hours: please refer to www.mcgill.ca/students/servicepoint
Telephone: 514-398-7878
Email for current students: http://webforms.mcgill.ca/servicepoint/request.asp?bhcp=1
Email for applicants & prospective students: http://webforms.mcgill.ca/servicepoint/contact.asp?bhcp=1

3 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.

3.1 Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision

The general guidelines suggested below are meant to encourage units to examine their graduate programs and to specify their own policies and procedures. These guidelines are directed primarily toward thesis programs but will, in part, be appropriate for non-thesis programs as well.

Each academic unit should have explicitly stated policies and procedures regarding the advising and supervising of graduate students, as well as established means for informing students of procedures and deadlines (e.g., orientation sessions, handbooks) and mechanisms for addressing complaints. Academic units should ensure that their policies and procedures are consistent with the Charter of Students' Rights. For their part, graduate students are responsible for informing themselves of these policies and procedures.

1. Assignment of Advisers, Supervisors, and Committees
   i. Each unit should designate a member (or members) of the academic staff (usually the Graduate Program Director) to monitor the progress of students throughout the graduate program, to ensure that all conditions of admission and requirements are fulfilled, to provide students with information on their program, their progress through it, sources of and policies on financial support, and to advise them how to resolve problems which may arise during their program.

   ii. As soon as possible, students should have a supervisor who has competence in the student's proposed area of research, and a program or thesis committee. Although procedures and timetables for choosing supervisors and committees may vary across programs, they should be consistent within a particular program and should be made clear to incoming students. Thesis supervisors must be chosen from academic staff in tenure-track positions. Faculty Lecturers and Research Assistants may not act as supervisors but in exceptional cases, may be co-supervisors. Emeritus Professors and Adjunct
Professors may co-supervise. Certain non-tenure track professors appointed in the Faculty of Medicine may be eligible to supervise or co-supervise graduate students with the approval of the unit and Graduate and Postdoctoral Studies. In the case of supervision, the academic unit in question must ensure continuity of appropriate supervision of their graduate students.

2. Program

i. Early in their program, students should be informed of the phases through which they must pass toward the achievement of the graduate degree, the approximate amount of time each phase should take, the criteria for its successful completion, and any deadlines relating to these phases.

ii. It is important that students are made aware of whatever courses are required to complete their programs, that these courses are available, and that they relate to students' proposed areas of research or to the development of related areas of scholarship.

iii. Where relevant, students should also be informed early in their program of language requirements or comprehensive examinations. The guidelines, criteria and procedures for comprehensive examinations must be explicit and consistently applied in each program. Academic units should consider the rationale for language and comprehensive examinations and how they relate to the objectives of the graduate program.

iv. Every effort should be taken to ensure that students choose, as soon as possible, realistic and appropriate areas of research commensurate with degree requirements.

v. There must be clear procedures established in every unit by which students receive guidance and constructive criticism on their progress on a regular basis through the program (e.g., regular meetings and/or email communication with supervisors and committees, attendance at research seminars, semester or annual reviews of student progress). In addition to regular meetings between the student and supervisor or advisory/thesis committee, each unit must establish a procedure to provide feedback to thesis students regarding their research progress. At least annually, there must be a meeting between the student, supervisor and advisory/thesis committee or, in the case where there is no such advisory/thesis committee, there must be a meeting between the supervisor and a departmental representative, at which objectives for the upcoming year are established and the prior year's research progress recorded and evaluated. A written record of such meetings must include the signature of the student, supervisor, and the advisory/thesis committee member or a departmental representative, and this record must be retained in the student's departmental file. (The Graduate Student Research Objectives Report Form, the Graduate Student Research Progress Record, and the Graduate Student Research Progress Report Form are to be utilized to keep a record of these meetings.) In the case where the student does not make expected progress, the advisory or thesis committee or, in the case where there is no such advisory or thesis committee, the student, supervisor and a departmental representative must meet at least once per semester for the subsequent twelve months to review progress and if appropriate to set new objectives. On the occasion of a second unsatisfactory progress report, the student may be required to withdraw from the program of study.

vi. Students should be made aware of the cost of living in Montreal and of sources of financial support (e.g., teaching or research assistantships, fellowships) and of the facilities available to them (e.g., study space, computers).

vii. Students should receive guidance and encouragement in areas relating to their growth in scholarship, professional development and career planning. Examples may include, where appropriate, reporting research, writing abstracts, preparing papers for conference presentation or for publication, writing grant and fellowship applications, conducting a job search, and preparing for job interviews.

viii. Units should be sensitive to special academic needs and concerns that may arise in the case of certain students, such as international students or students who undertake graduate studies after a long absence from university.

3. Responsibilities

Each unit should clearly identify the student's supervisory needs at each phase and the means by which these needs will be met. Some functions will be fulfilled by the Chair, some by the Graduate Program Director, some by the supervisor and some by the committee. Each unit should clearly identify the specific responsibilities of each of these, as well as the responsibilities of students themselves.

i. Each unit 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.

ii. Some examples of the responsibilities of the Graduate Program Director are to be knowledgeable about program requirements, the composition of committees, the procedures for comprehensive and oral defense examinations, and other policies relating to graduate studies; to maintain a dossier on each student's progress; and to be sensitive to graduation deadlines and students' career plans.

iii. Some examples of the responsibilities of a supervisor are to uphold and to transmit to students the highest professional standards of research and/or scholarship; to provide guidance in all phases of the student's research; to meet with their students regularly; to provide prompt feedback when work is submitted including drafts of the thesis; and to clarify expectations regarding collaborative work, authorship, publication and conference presentations.

iv. Some examples of the responsibilities of the students are to inform themselves of program requirements and deadlines; to work within these deadlines; to communicate regularly with the supervisor and committee; and to submit progress reports to the supervisor and committee.

v. The Chair of the 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 who will ensure that all sides of a dispute are heard before any decision is made.

4. Quality of Supervision and Teaching

i. Academic units and Graduate and Postdoctoral Studies should consider ways to assess and improve the quality of supervision and to help new supervisors, e.g., through workshops or mentoring models. Procedures for monitoring the quality of graduate student supervision and for providing constructive feedback for supervisors should be developed.

ii. Graduate supervision should be recognized as an integral part of the academic responsibility of an academic unit and should be considered in the allocation of workload, as should the teaching of graduate courses.

iii. Academic units should establish criteria of excellence in supervision and graduate teaching appropriate to their disciplines and should suitably reward those who meet these criteria, e.g., in decisions concerning tenure and promotion, or merit pay awards.
iv. The maximum number of students under the direction of a single supervisor should be consistent with the ability of the supervisor to provide quality supervision, taking into account the workload of the supervisor and norms of the discipline.

v. Procedures should be established for ensuring continuity in supervision when a student is separated from a supervisor – for example, when the supervisor takes a sabbatical leave, retires from McGill or changes universities or when the student leaves to complete field work or takes a job before submitting a thesis.

Revised by Council of FGSR, April 23, 1999 and October 6, 2003

3.2 Policy on Graduate Student Research Progress Tracking

This is a mandatory policy and procedure to track the research progress of graduate students. The policy is referred to in the amended section 3.1: Guidelines and Regulations for Academic Units on Graduate Student Advising and Supervision in bold font. Documents to record progress can be found on the GPS website: www.mcgill.ca/gps/students/research-tracking#progress.

The following is a summary of the main elements of the mandatory policy. The following steps must be followed for each graduate student in a thesis program:

1. Annually, the student must meet with, at minimum, their supervisor(s) and a departmental representative. This meeting can occur in the context of an annual thesis or advisory committee in those departments that have thesis committees.

2. At the first such meeting (to be held shortly after thesis students begin their programs), written objectives/expectations for the year must be recorded on the first of the three forms, Form #1 (Graduate Student Research Objectives Report Form). All three people at the meeting must sign this form. A student who does not agree to sign the form must write a statement detailing his/her objections to the expectations recorded on the form.

3. Approximately one year later, and every year thereafter, the student, supervisor(s) and the departmental representative should meet again to review the progress that has been achieved toward the recorded objectives. Prior to the meeting, the student should record his/her accomplishments and progress for the year by completing Form #2 (Graduate Student Research Progress Record). This completed form is then evaluated by the supervisor and the departmental representative on Form #3 (Graduate Student Research Progress Report Form). All parties sign Form #3. A student who does not agree to sign the form must write a statement detailing his/her objections. At this same meeting, objectives for the following year should be recorded on Form #1, as per the procedure described in point 2, above.

4. In the event that recorded research progress is unsatisfactory, a new set of objectives should be developed for the student at the meeting, and recorded on Form #1. These new, or interim, objectives apply only to the next semester. Evaluation of progress should take place after that semester has concluded, following the steps described in point 3, above.

5. In the event that a student has any two unsatisfactory evaluations they may be required to withdraw from their program of study. These two unsatisfactory evaluations need not be successive.

6. All forms are to be kept in departmental files.

7. Departments that already have progress tracking forms may continue to utilize them, but these must conform to the fundamental principles underlying this policy. Specifically, any departmental procedure or forms to record graduate research progress must:

- be used annually;
- be used in a meeting with the supervisor and one other departmental representative, and signed by all parties;
- include a written statement of expectations approximately one year before any evaluation (Note: This can be one semester in the case of expectations following an unsatisfactory evaluation.);
- permit the student to submit a minority report and not sign;
- state clearly that any two unsatisfactory evaluations may be grounds for requiring a student to withdraw.

Please note this University policy is MANDATORY. Students may grieve against a department that fails to adhere to the policy and procedures outlined above.

Senate, September 2003

3.3 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.

General Policy

1. 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; and failures (including procedures for repeats; see below for details).

2. All Ph.D. comprehensives must be represented by an administrative course number; usually XXXX 701. One of the following forms of grading must be adopted and applied consistently to all students within the program: Pass/Fail or letter grades.
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
• a thesis proposal
• professional skills
• ability to present and defend material orally

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

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 exam (which may include or consist of a defence of a research paper or research proposal)

Timing

Units must clearly specify where the comprehensive fits into the program milestones (e.g., whether all coursework must have been completed prior to undertaking the comprehensive, and whether the comprehensive is the final step before thesis research and writing).

Scheduling of the comprehensive must be specified, including the earliest and latest dates by which it is to be completed. Students must be informed of the specific dates of the exam with sufficient time to prepare for it, at least 12 months in advance.

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.

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.

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); have a neutral observer, chair, or outside committee member; and/or make the oral open to members of the academic unit.

Failures

In the event of a failure, units must allow, without prejudice, one repeat of the comprehensive (in whole or in part). After the first failure, 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 time frame, potential dates, nature of the re-examination, committee membership, etc. Units have the right to specify further requirements in the event of failure, such as requiring students to take an additional course or courses in areas where they have shown weakness on the comprehensive. In such circumstances, the grade of HH (which designates "continuing") will be recorded on the student's transcript.

In the event of a second failure, the student will receive a grade of F and will be withdrawn from the Ph.D. program.

Approved by Executive of Faculty of Graduate Studies and Research (FGSR) February 17, 1997 and Council of FGSR March 7, 1997; Revised by GPS July 9, 2014

3.4 Graduate Studies Reread Policy

This policy applies only in the case of grades 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 3.3: Ph.D. Comprehensives Policy for more information.

I. Consultation
In accordance with the Charter of Student Rights, 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 ($35.91 for an exam, $35.91 for a paper, $35.91 for one or more assignments, to a maximum of $107.73 per course) 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.

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; and 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 requirement of the Charter of Students’ Rights 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 the Faculty of Graduate Studies and Research, May 12th 1995

Revised May 1997; Revised January 2011; Revised July 2014
3.5 **Guidelines for the 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 fulfil your university commitments when faced with exceptional circumstances related to particular family commitments, these guidelines aim to set out how, and in what exceptional circumstances, you may request academic accommodation.

You can consult the guidelines at [www.mcgill.ca/secretariat/policies/students](http://www.mcgill.ca/secretariat/policies/students).

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3.6 **Failure Policy**

Please refer to the eCalendar under *University Regulations and Resources > Graduate > Regulations > section 2.10: Failure Policy* for information regarding the policy and procedures to follow in cases of failure.

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3.7 **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.

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4 **Graduate Studies at a Glance**

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4.1 **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 14.11.1: Agricultural Economics</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 14.11.2: Animal Science</td>
<td>M.Sc., M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.3: Bioresource Engineering</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Certificate</td>
</tr>
<tr>
<td>section 14.11.4: Biotechnology</td>
<td>M.Sc.A., Graduate Certificate</td>
</tr>
<tr>
<td>section 14.11.5: Dietetics and Human Nutrition</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 14.11.6: Food Science and Agricultural Chemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.7: Natural Resource Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.8: Parasitology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 14.11.9: 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 15.11.1: Anthropology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.2: Art History</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Classics – see section 15.11.10: History and Classical Studies</td>
<td>N/A</td>
</tr>
<tr>
<td>section 15.11.4: Communication Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.5: East Asian Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.6: Economics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.7: English</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.8: French Language and Literature</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Faculty of Arts</td>
<td>Degrees Available</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>section 15.11.9: Geography</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.10: History and Classical Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.11: Information Studies</td>
<td>M.I.St., Ph.D., Graduate Certificate, Graduate Diploma</td>
</tr>
<tr>
<td>section 15.11.12: Institute for the Study of International Development</td>
<td>N/A</td>
</tr>
<tr>
<td>section 15.11.13: Islamic Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.14: Jewish Studies</td>
<td>M.A.</td>
</tr>
<tr>
<td>section 15.11.15: Languages, Literatures, and Cultures</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.16: Linguistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.17: Mathematics and Statistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.18: Philosophy</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.19: Political Science</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.20: Psychology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.21: Quebec Studies / Études sur le Québec</td>
<td>N/A</td>
</tr>
<tr>
<td>section 15.11.22: Social Studies of Medicine</td>
<td>N/A</td>
</tr>
<tr>
<td>section 15.11.23: Social Work</td>
<td>M.Sc.A., M.S.W., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.24: Sociology</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Dentistry</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 16.11.1: Dentistry</td>
<td>M.Sc.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Desautels Faculty of Management</th>
<th>Degrees Available</th>
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<table>
<thead>
<tr>
<th>Faculty of Education</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 18.11.1: Educational and Counselling Psychology</td>
<td>M.A., M.Ed., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 18.11.3: Integrated Studies in Education</td>
<td>M.A., Ph.D., Graduate Certificate</td>
</tr>
<tr>
<td>section 18.11.4: Kinesiology and Physical Education</td>
<td>M.A., M.Sc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Engineering</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 19.11.1: Architecture</td>
<td>M.Arch., Ph.D.</td>
</tr>
<tr>
<td>section 19.11.2: Chemical Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 19.11.3: Civil Engineering and Applied Mechanics</td>
<td>M.Sc., M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 19.11.4: Electrical and Computer Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 19.11.5: Mechanical Engineering</td>
<td>M.Sc., M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 19.11.6: Mining and Materials Engineering</td>
<td>M.Sc., M.Eng., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 19.11.7: Urban Planning</td>
<td>M.U.P.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Law</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 20.11.1: Law</td>
<td>LL.M., D.C.L., Graduate Certificate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>McGill School of Environment</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 21.11.1: Environment</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Medicine</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 22.11.1: Anatomy and Cell Biology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.2: Biochemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>Faculty of Medicine</td>
<td>Degrees Available</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>section 22.11.3: Bioethics</td>
<td>N/A</td>
</tr>
<tr>
<td>section 22.11.4: Biomedical Engineering</td>
<td>M.Eng., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.5: Communication Sciences and Disorders</td>
<td>M.Sc., M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.6: Epidemiology and Biostatistics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.9: Human Genetics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.10: Medical Physics</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 22.11.11: Medicine, Experimental</td>
<td>M.Sc., Ph.D., Graduate Diploma</td>
</tr>
<tr>
<td>section 22.11.12: Medicine, Family</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 22.11.13: Microbiology and Immunology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.14: Neuroscience (Integrated Program in)</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.15: Occupational Health</td>
<td>M.Sc.A., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.16: Otolaryngology – Head and Neck Surgery</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 22.11.17: Pathology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.18: Pharmacology and Therapeutics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.19: Physiology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 22.11.20: Psychiatry</td>
<td>M.Sc.</td>
</tr>
<tr>
<td>section 22.11.21: Surgery, Experimental</td>
<td>M.Sc., Ph.D.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingram School of Nursing</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 23.11.1: Nursing</td>
<td>M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Physical and Occupational Therapy</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 24.11.1: Physical and Occupational Therapy</td>
<td>M.Sc., M.Sc.A., Ph.D., Graduate Certificate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Religious Studies</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 25.11.1: Religious Studies</td>
<td>M.A., S.T.M., Ph.D.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Schulich School of Music</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 26.11.1: Schulich School of Music</td>
<td>M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty of Science</th>
<th>Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>section 27.11.1: Atmospheric and Oceanic Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 27.11.2: Biology</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 27.11.3: Chemistry</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 27.11.4: Computer Science</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 27.11.5: Earth and Planetary Sciences</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.9: Geography</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.17: Mathematics and Statistics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 27.11.8: Physics</td>
<td>M.Sc., Ph.D.</td>
</tr>
<tr>
<td>section 15.11.20: Psychology</td>
<td>M.Sc., Ph.D.</td>
</tr>
</tbody>
</table>

### 4.2 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 4.2.1: 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>
<tbody>
<tr>
<td>Master of Architecture</td>
<td>Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professionally.</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>Bachelor of Arts in the subject selected for graduate work. See appropriate unit.</td>
</tr>
<tr>
<td>Master of Business Administration</td>
<td>An undergraduate degree from an approved university. See section 17.12: M.B.A. Program.</td>
</tr>
<tr>
<td>Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws</td>
<td>See section 17.12: M.B.A. Program.</td>
</tr>
<tr>
<td>Master of Business Administration with Doctor of Medicine / Master of Surgery</td>
<td>M.B.A. with M.D.,C.M. See section 17.12: M.B.A. Program.</td>
</tr>
<tr>
<td>Master of Education</td>
<td>Bachelor of Arts 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.</td>
</tr>
<tr>
<td>Master of Engineering</td>
<td>Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.</td>
</tr>
<tr>
<td>Master of Information Studies</td>
<td>At least a bachelor's degree from a recognized university. See section 15.11.11.3: Information Studies Admission Requirements and Application Procedures.</td>
</tr>
<tr>
<td>Master of Laws</td>
<td>An acceptable degree in Law or equivalent qualifications. See section 20.11.1.3: Law Admission Requirements and Application Procedures.</td>
</tr>
<tr>
<td>Master of Management</td>
<td>See section 17.13: Master of Management Programs Admission Requirements and Application Procedures.</td>
</tr>
<tr>
<td>Master of Music</td>
<td>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 speciality. See section 26.11.1: Schulich School of Music.</td>
</tr>
<tr>
<td>Master of Sacred Theology</td>
<td>B.A. with specialization in religious studies or theology. See section 25.11.1.3: Religious Studies Admission Requirements and Application Procedures.</td>
</tr>
<tr>
<td>Master of Science</td>
<td>Bachelor of Science in the subject selected for graduate work. See appropriate unit.</td>
</tr>
<tr>
<td>Master of Science, Applied</td>
<td>A bachelor's degree in the subject selected for graduate work. See appropriate unit.</td>
</tr>
<tr>
<td>Master of Social Work with Bachelor of Civil Law and Bachelor of Laws</td>
<td>M.S.W. with B.C.L. and LL.B. See section 15.11.23.3: Social Work Admission Requirements and Application Procedures.</td>
</tr>
<tr>
<td>Master of Urban Planning</td>
<td>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 19.11.7.3: Urban Planning Admission Requirements and Application Procedures.</td>
</tr>
</tbody>
</table>

### 4.2.1 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>Master of Architecture (M.Arch.)</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, Cultural Mediations and Technology, Urban Design and Housing</td>
</tr>
<tr>
<td>Master of Arts (M.A.)</td>
<td></td>
<td></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 (Ad Hoc)</td>
<td>N/A</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Thesis</td>
<td>Health Professions Education, Human Development, Learning Sciences, School/Applied 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>Education and Society</td>
<td></td>
<td>Gender and Women's Studies, Jewish Education (Non-Thesis)</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>Thesis, Non-Thesis</td>
<td>Gender and Women's Studies (Thesis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gender and Women's Studies (Non-Thesis (Project))</td>
</tr>
<tr>
<td>English</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</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, Social Statistics (Thesis)</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></td>
</tr>
<tr>
<td>History of Medicine</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Islamic Studies</td>
<td>Thesis</td>
<td>Gender and Women's Studies (Thesis)</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>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, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Thesis</td>
<td>Bioethics</td>
</tr>
</tbody>
</table>
### Master of Arts (M.A.)

<table>
<thead>
<tr>
<th>Major</th>
<th>Thesis/Non-Thesis</th>
<th>Additional Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Development Studies, European Studies, Gender and Women's Studies, Social 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>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, Population Dynamics, Social Statistics (Non-Thesis)</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td>Non-Thesis</td>
<td>English or French Second Language, English Language Arts, Mathematics, 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/Non-Thesis</th>
<th>Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.B.A.</td>
<td>Non-Thesis</td>
<td>Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)</td>
</tr>
<tr>
<td>M.D./M.B.A.</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>E.M.B.A.</td>
<td>Non-Thesis</td>
<td>N/A</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>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Major</th>
<th>Thesis/Non-Thesis</th>
<th>Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>Thesis, Non-Thesis</td>
<td>Bioinformatics (Thesis)</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>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>
</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.

<table>
<thead>
<tr>
<th>Major</th>
<th>Thesis/Non-Thesis</th>
<th>Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Studies</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Master of Laws (LL.M.)

<table>
<thead>
<tr>
<th>Major</th>
<th>Thesis/Non-Thesis</th>
<th>Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)</td>
</tr>
</tbody>
</table>
**Master of Music (M.Mus.)**

<table>
<thead>
<tr>
<th>Area</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music – Composition</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Performance</td>
<td>Thesis</td>
<td>Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting</td>
</tr>
<tr>
<td>Sound Recording</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Master of Sacred Theology (S.T.M.)**

A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the Faculty 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.

<table>
<thead>
<tr>
<th>Religious Studies</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Master of Science (M.Sc.)**

<table>
<thead>
<tr>
<th>Area</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Economics</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Animal Science</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Atmospheric and Oceanic Science</td>
<td>Thesis</td>
<td>Environment</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>Thesis</td>
<td>Bioinformatics, Chemical Biology</td>
</tr>
<tr>
<td>Biology</td>
<td>Thesis</td>
<td>Bioinformatics, Environment, Neotropical Environment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Integrated Water Resource Management (Non-Thesis)</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>Thesis, Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Cell Biology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Thesis</td>
<td>Chemical Biology</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Earth and Planetary Sciences</td>
<td>Thesis</td>
<td>Environment</td>
</tr>
<tr>
<td>Entomology</td>
<td>Thesis</td>
<td>Environment, Neotropical Environment</td>
</tr>
<tr>
<td>Epidemiology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Experimental Medicine</td>
<td>Thesis</td>
<td>Bioethics, Environment, Family Medicine</td>
</tr>
<tr>
<td>Experimental Surgery</td>
<td>Thesis</td>
<td>Surgical Education, Surgical Innovation</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Food Science and Agricultural</td>
<td>Thesis, Non-Thesis</td>
<td>Food Safety (Non-Thesis)</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td></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>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>
</tbody>
</table>
### Master of Science (M.Sc.)

<table>
<thead>
<tr>
<th>Thesis Area</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<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>Bioinformatics, Environment</td>
</tr>
<tr>
<td>Pathology</td>
<td>Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>Thesis</td>
<td>Chemical Biology</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>Public Health</td>
<td>Non-Thesis</td>
<td>Environment, 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.)

<table>
<thead>
<tr>
<th>Thesis Area</th>
<th>Type</th>
<th>Notes</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, Neotropical Environment</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Communication Sciences and</td>
<td>Non-Thesis</td>
<td>Speech-Language Pathology</td>
</tr>
<tr>
<td>Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>Non-Thesis, Non-Thesis</td>
<td>Dietetics Credentialing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Project), Non-Thesis (Practicum)</td>
</tr>
<tr>
<td>Nursing</td>
<td>Non-Thesis</td>
<td>Clinical Nurse Specialist, Direct Entry Nursing, Global Health Clinical Nurse Specialist, Global Health Direct Entry, Neonatal Nurse Practitioner, Nursing Education, Nursing Services Administration, Primary Care Nurse Practitioner</td>
</tr>
<tr>
<td>Occupational Health</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Non-Thesis (Resident), Non-Thesis (Distance)</td>
<td>N/A</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Plant Science</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>Social Work</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>Thesis Area</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint Master of Social Work with</td>
<td>Non-Thesis</td>
<td>N/A</td>
</tr>
<tr>
<td>B.C.L. and LL.B.</td>
<td></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>Thesis Area</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
</table>
4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See section 4.3.1: 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>B.C.L. or LL.B. and usually LL.M. See section 20.11.1: Law.</td>
</tr>
<tr>
<td>Doctor of Music</td>
<td>M.A. in Composition (D.Mus. in Composition) or a master's degree in Performance, and professional and teaching experience (D.Mus. in Performance). See section 26.11.1: Schulich School of Music.</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>An undergraduate degree relevant to the subject chosen for graduate work. Some departments require all Ph.D. candidates to hold a master’s degree in the same subject. Departments may recommend that candidates of undoubted promise should be allowed to proceed directly to the Ph.D. degree without being required to submit a master's thesis.</td>
</tr>
<tr>
<td>Joint Doctor of Philosophy</td>
<td>Joint Ph.D.s are offered in co-operation with other universities.</td>
</tr>
<tr>
<td>Ad Hoc Doctor of Philosophy</td>
<td>Several departments offer the possibility of directly entering a Ph.D. program 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 master's program to the ad hoc Ph.D. program.</td>
</tr>
</tbody>
</table>

4.3.1 Doctoral Degree Programs and Specializations

<table>
<thead>
<tr>
<th>Program</th>
<th>Options</th>
<th>Offered by Faculty/School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Civil Law (D.C.L.)</td>
<td>Law, Air and Space Law, Comparative Law</td>
<td>Faculty of Law</td>
</tr>
<tr>
<td>Doctor of Music (D.Mus.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>Composition, Performance Studies</td>
<td>Schulich School of Music</td>
</tr>
</tbody>
</table>

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).

<p>| Animal Science                       | Bioinformatics                               | Faculty of Agricultural and Environmental Sciences |
| Anthropology                         | Neotropical Environment                     | Faculty of Arts                                    |
| Architecture                         | N/A                                          | Faculty of Engineering                             |
| Art History                          | Gender and Women's Studies                  | Faculty of Arts                                    |
| Atmospheric and Oceanic Sciences     | N/A                                          | Faculty of Science                                 |
| Biochemistry                         | Bioinformatics, Chemical Biology             | Faculty of Medicine                                 |
| Biology                              | Bioinformatics, Environment, Neotropical Environment | Faculty of Science |
| Biomedical Engineering               | Bioinformatics                               | Faculty of Medicine                                 |
| Bioresource Engineering              | Environment, Neotropical Environment        | Faculty of Agricultural and Environmental Sciences |
| Biostatistics                        | N/A                                          | Faculty of Medicine                                 |
| Cell Biology                         | N/A                                          | Faculty of Medicine                                 |
| Chemical Engineering                 | N/A                                          | Faculty of Engineering                             |</p>
<table>
<thead>
<tr>
<th>Doctor of Philosophy (Ph.D.)</th>
<th>Chemical Biology</th>
<th>Faculty of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>N/A</td>
<td>Faculty of Science</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>N/A</td>
<td>Faculty of Engineering</td>
</tr>
<tr>
<td>Classics</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>Language Acquisition</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>Gender and Women's Studies</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Bioinformatics</td>
<td>Faculty of Science</td>
</tr>
<tr>
<td>Counselling Psychology</td>
<td>N/A</td>
<td>Faculty of Education</td>
</tr>
<tr>
<td>Earth and Planetary Sciences</td>
<td>Environment</td>
<td>Faculty of Science</td>
</tr>
<tr>
<td>Economics</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Human Development, Learning Sciences</td>
<td>Faculty of Education</td>
</tr>
<tr>
<td>Educational Studies</td>
<td>Gender and Women's Studies, Language Acquisition, Mathematics and Science Education</td>
<td>Faculty of Education</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>N/A</td>
<td>Faculty of Engineering</td>
</tr>
<tr>
<td>English</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Entomology</td>
<td>Environment, Neotropical Environment</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Epidemiology</td>
<td>Population Dynamics</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Experimental Medicine</td>
<td>Environment</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Experimental Surgery</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Food Science and Agricultural Chemistry</td>
<td>N/A</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>French Language and Literature</td>
<td>Gender and Women's Studies</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Geography</td>
<td>Environment, Gender and Women's Studies, Neotropical Environment</td>
<td>Faculty of Arts, Faculty of Science</td>
</tr>
<tr>
<td>German</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Hispanic Studies</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>History</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Human Genetics</td>
<td>Bioinformatics</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Human Nutrition</td>
<td>N/A</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Information Studies</td>
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<td>Faculty of Arts</td>
</tr>
<tr>
<td>Islamic Studies</td>
<td>Gender and Women's Studies</td>
<td>Faculty of Arts</td>
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<tr>
<td>Linguistics</td>
<td>Language Acquisition</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Management</td>
<td>Environment</td>
<td>Desautels Faculty of Management</td>
</tr>
<tr>
<td>Mathematics and Statistics</td>
<td>Bioinformatics</td>
<td>Faculty of Arts, Faculty of Science</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
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</tr>
<tr>
<td>Microbiology</td>
<td>N/A</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Microbiology and Immunology</td>
<td>Bioinformatics, Environment</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Mining and Materials Engineering</td>
<td>N/A</td>
<td>Faculty of Engineering</td>
</tr>
<tr>
<td>Music</td>
<td>Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies</td>
<td>Schulich School of Music</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Nursing</td>
<td>Psychosocial Oncology</td>
<td>Ingram School of Nursing</td>
</tr>
<tr>
<td>Occupational Health</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
</tbody>
</table>
### Doctor of Philosophy (Ph.D.)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Field</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parasitology</td>
<td>Bioinformatics, Environment</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Pathology</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>Chemical Biology</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Environment, Gender and Women's Studies</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Physics</td>
<td>N/A</td>
<td>Faculty of Science</td>
</tr>
<tr>
<td>Physiology</td>
<td>Bioinformatics, Chemical Biology</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Plant Science</td>
<td>Bioinformatics, Environment, Neotropical Environment</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Political Science</td>
<td>Gender and Women's Studies</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Psychology</td>
<td>Language Acquisition, Psychosocial Oncology</td>
<td>Faculty of Arts, Faculty of Science</td>
</tr>
<tr>
<td>Rehabilitation Science</td>
<td>N/A</td>
<td>School of Physical and Occupational Therapy</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>Gender and Women's Studies</td>
<td>Faculty of Religious Studies</td>
</tr>
<tr>
<td>Renewable Resources</td>
<td>Environment, Neotropical Environment</td>
<td>Faculty of Agricultural and Environmental Sciences</td>
</tr>
<tr>
<td>Russian</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>School/Applied Child Psychology</td>
<td>N/A</td>
<td>Faculty of Education</td>
</tr>
<tr>
<td>Social Work</td>
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<td>Faculty of Arts</td>
</tr>
<tr>
<td>Sociology</td>
<td>Gender and Women's Studies, Population Dynamics</td>
<td>Faculty of Arts</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Field</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dentistry</td>
<td>N/A</td>
<td>Faculty of Dentistry</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Italian Studies</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Jewish Studies</td>
<td>N/A</td>
<td>Faculty of Arts</td>
</tr>
<tr>
<td>Kinesiology and Physical Education</td>
<td>N/A</td>
<td>Faculty of Education</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>N/A</td>
<td>Faculty of Medicine</td>
</tr>
<tr>
<td>Urban Planning</td>
<td>N/A</td>
<td>Faculty of Engineering</td>
</tr>
</tbody>
</table>

### 4.4 Postdoctoral Research

See [section 14.8: Postdoctoral Research](#) for information about postdoctoral research at McGill University.

### 4.5 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>Name</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Research</td>
<td>Professional Performance</td>
</tr>
</tbody>
</table>
Graduate Diplomas

Library and Information Studies
Mining Engineering
Neonatal Nurse Practitioner
Primary Care Nurse Practitioner

Graduate Certificates

Air and Space Law
Bioinformatics
Bioresource Engineering (Integrated Water Resources Management)
Biotechnology
Chronic Pain Management
Comparative Law
Driving Rehabilitation
Educational Leadership 1

Public Accountancy (Chartered Accountancy)
Registered Dietitian Credentialing (R.D.)
School/Applied Child Psychology (Post-Ph.D.)

Educational Leadership 2
Enseignement immersif
Library and Information Studies
Post-M.B.A.
Professional Accounting
Teaching English as a Second Language
Theory in Primary Care
Theory in Neonatology

All graduate regulations apply to graduate diploma and graduate certificate candidates.

Note: The School of Continuing Studies offers graduate diplomas and graduate certificates that are not under the academic supervision of Graduate and Postdoctoral Studies. To see a list of the programs offered, refer to the School of Continuing Studies eCalendar available at www.mcgill.ca/study.

5 Graduate Admissions and Application Procedures

Website: 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 subject to change. To be considered for entrance fellowships, where available, applicants must verify the deadlines with individual departments.

5.1 Application for Admission

Application information and the online application form are available at 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 or 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/uapply/submit for instructions on 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 department specifications and deadlines; see 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 department. 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.

5.2 Admission Requirements (Minimum Requirements to be Considered for Admission)

Note: The following admission requirements denote the minimum standard for applicants. Some graduate departments may require additional qualifications or a higher minimum CGPA; applicants are strongly urged to consult the department 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 3.2/4.0 for the last two full-time academic years. High grades are expected in courses considered by the department to be preparatory to the graduate program. Some departments impose additional or higher requirements.

See www.mcgill.ca/gradapplicants/apply/prepare/international/international-degree-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.

5.3 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/uapply/submit for information and instructions.


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.

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 departments require more than two referees; please consult Admission Requirements and Application Procedures for each department at www.mcgill.ca/gradapplicants/programs. This topic is under discussion; please check with your department 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: As of January 2015, McGill requires IELTS results to be sent electronically.

For detailed information regarding additional documents that may be required by certain departments, please consult Admission Requirements and Application Procedures for each department at www.mcgill.ca/gradapplicants/programs.

5.3.1 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 5.4: Admission Tests)

GRE: Graduate Records Examination (see section 5.4: Admission Tests)

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 5.5: Competency in English)

**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.

### 5.4 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 departments 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 directly by the testing service.

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 department 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 departments 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/the-gmat](http://www.mba.com/the-gmat).

### 5.5 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:

<table>
<thead>
<tr>
<th>Competency in English</th>
<th>CBT (computer-based test)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>iBT (Internet-based test)</td>
<td>PBT (paper-based test)</td>
</tr>
<tr>
<td>86 overall (no less than 20 in each of the four component scores)</td>
<td>550</td>
</tr>
</tbody>
</table>

   * The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

   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 departments may set higher requirements.

Revised – July 2008

5.6 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 department 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 a department 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 Winter departmental application deadlines. 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.

5.7 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.

5.8 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 departments or faculties. Students are never permitted to pursue two full-time degree programs concurrently.

5.9 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 departments involved and will explicitly list the conditions imposed. The student will undertake research under the joint supervision of both departments.

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

5.10 Reinstatement and Admission of Former Students

Students who have not been registered for a period of less than two years and who have not officially withdrawn from the University by submitting a signed Withdrawal Form to Service Point are eligible to be considered for reinstatement into their program. The student's department must recommend, in writing, that the student be reinstated, stipulating any conditions for reinstatement that it deems appropriate. If the student's department chooses not to recommend reinstatement, 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.

Reinstatement fees will be charged in addition to the fees due for the academic session into which the student has been reinstated. The amount of the reinstatement fees is the tuition portion of fees owed for all unregistered terms, up to a maximum of two years just prior to the term of reinstatement.

If an individual has not registered for a period of more than two years, their student file will be closed. These individuals and those who have formally withdrawn may be considered for admission. Applicants’ admission applications will be considered as part of the current admission cycle, in competition with other people applying during that cycle and in accordance with current graduate admission procedures and policies.
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. Applicants must inquire about the fees that will be charged.


5.11 Deferral of Admission

Under exceptional circumstances, an admission for a particular semester can be considered for a deferral. 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.

6 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.mels.gouv.qc.ca/en/students/studying-in-quebec/exemption-from-differential-tuition-fees, 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.mels.gouv.qc.ca/en/students/studying-in-quebec. The list of organizations where students should apply can be accessed from this website.

Differential Fee Waivers (DFWs) for international students provide eligible non-Canadian graduate students with waivers of the international tuition fee supplement. There are no application forms for differential fee waivers, since these are awarded on the basis of unit nominations made to the Graduate Funding Unit. Eligible students should contact their McGill unit.

7 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.

7.1 Policy on Research Ethics


7.2 Regulations on Research Policy

7.3 **Policy on Research Integrity**

Please refer to the Policy on Research Integrity available at: [www.mcgill.ca/research/about/integrity](http://www.mcgill.ca/research/about/integrity).

7.4 **Guidelines for Research Involving Human Subjects**


7.5 **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](http://www.mcgill.ca/research/researchers/compliance/animal).

7.6 **Policy on Intellectual Property**


7.7 **Regulations Governing Conflicts of Interest**


7.8 **Safety in Field Work**

Please refer to the policies on safety in field work available at [www.mcgill.ca/ehs/safetycommittees/fieldworksafety](http://www.mcgill.ca/ehs/safetycommittees/fieldworksafety).

7.9 **Office of Sponsored Research**


7.10 **Postdocs**


7.11 **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/classifications/other](http://www.mcgill.ca/apo/classifications/other).

8 **Student Services and Information**

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

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

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

8.1.1 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 4100  
Montreal, QC H3A 0G3

For information, contact (Dean/Associate Dean):

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

8.1.2 Office of the Executive Director, Services for Students

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

For information, contact:

Telephone: 514-398-3825  
Website: www.mcgill.ca/studentservices

The Executive Director, Services for Students (EDSS), coordinates all student services at McGill to help promote student success and well-being. The EDSS is available to provide assistance and/or information on almost all aspects of non-academic student life. Concerns of an academic nature are directed to the proper individual, office, or department. Funding is also available for projects, initiated by students and/or staff, that enhance student life and learning.

8.2 Student Services – Downtown Campus

Unless otherwise indicated, all Student Services on the Downtown campus are located in the William and Mary Brown Student Services Building, 3600 McTavish Street, Montreal, Quebec, H3A 0G3.

A list of services available is given below. For further information, see the Student Services website: www.mcgill.ca/studentservices.

**Student Services:**

Brown Student Services Building, Suite 4100  
3600 McTavish Street  
Montreal, Quebec, H3A 0G3  
General Information: 514-398-8238  
Website: www.mcgill.ca/studentservices

**Career Planning Service (CaPS):** Provides career education, guidance, and individual advising to help you in your search for permanent, part-time, or summer jobs and internships.

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

**Office of Religious and Spiritual Life:** Concerned with the spiritual and mental well-being of all students.
Counselling Service: Assists with psychological, emotional, and interpersonal issues as well as vocational and academic concerns.

First Peoples' House: Fosters a sense of community for Aboriginal students studying at McGill.

Campus Life & Engagement: Helps ease the transition of all students new to McGill. Coordinates “Discover McGill,” a one-day, campus-wide University and faculty orientation.

Health Services and Dental Clinic: Provides access to experienced physicians, nurses, and health educators who offer health services and information in a confidential atmosphere. Also operates a laboratory offering a wide array of testing, and a dental clinic.

International Student Services: Offers support to international students on non-academic matters (immigration, health insurance, etc.), runs a Buddy Program and an orientation program.

Mental Health Service: A psychiatric clinic that offers easily accessible treatment for mental health problems.

Office for Students with Disabilities: Coordinates services to meet the needs of students with disabilities.

Scholarships and Student (Financial) Aid Office: Provides assistance in the form of loans, bursaries, and Work Study programs to students requiring financial aid.

Tutorial Service: Sponsors an extensive tutorial program for students.
8.3 Student Services – Macdonald Campus

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

A list of services available is given below. For detailed information, please visit our website at www.mcgill.ca/macdonald-studentservices, and the main Student Services website: www.mcgill.ca/studentservices.

Macdonald Campus Student Services
Centennial Centre, Room CC1-124
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, Quebec H9X 3V9
Telephone: 514-398-7992
Fax: 514-398-7610
Email: stuserv.macdonald@mcgill.ca

Career Planning Service (CaPS): Assists you in your career development and search for permanent, part-time, and summer jobs by providing workshops, individual advising, a comprehensive job posting service, Career Fairs, and a Career Resource Centre.

Telephone: 514-398-7582
Website: www.mcgill.ca/caps
Email: caps.macdonald@mcgill.ca

Counselling Service: Offers confidential counselling with a psychologist for personal, social, emotional, vocational, and academic issues, among others. Appointments are required.

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

Health Services: Offers health services in a confidential environment for a variety of health-related issues including general checkups, STI testing as well as routine and travel vaccinations. Appointments are available with our Nurse and Doctor.

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

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

Macdonald Campus Student Services also provides international health insurance (Blue Cross cards) and administers mid-term examinations for students registered with the Office for Students with Disabilities.

8.4 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

8.4.1 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.

Occupancy of graduate housing is from August 24, 2014 to July 31, 2015 or from January 1, 2015 to July 31, 2015.

8.4.1.1 Single-Occupancy Apartments

Graduate housing includes a seven-storey apartment block and three small apartment buildings. All are located within a 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.

8.4.1.2 Shared-Facilities Housing

There is a variety of graduate housing 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 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.

8.4.2 University Residences – Macdonald Campus

Campus Housing Office
P.O. Box 188
Macdonald Campus of McGill University
Sainte-Anne-de-Bellevue, QC H9X 3V9
Telephone: 514-398-7716
Fax: 514-398-7953
Email: residences.macdonald@mcgill.ca
Website: www.mcgill.ca/students/housing/macdonald

Residence life is an integral part of Macdonald campus activities. Laird Hall, with a capacity of 250 students, is a co-ed residence that provides accommodation for undergraduate, graduate, and Farm Management Technology students. Residents enjoy comfortable rooms, modern kitchens, cozy lounge facilities, and other amenities that help make their residence life a complete and meaningful part of their university experience. All dorm rooms have telephone service, available at extra cost. 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.

8.4.2.1 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 Laird Hall residence fees for the 2014–2015 session are $502 per month. Rates for the EcoResidence vary from $512 (12-month lease) to $542 (8-month lease) per month. An updated fee sheet will be available on the Macdonald residence website at: www.mcgill.ca/students/housing/macdonald.
There is no meal plan offered on the Macdonald Campus. Students may purchase a Commuter meal plan. Refer to www.mcgill.ca/foodservices/mealplans for additional information. Meals are also available on a cash basis from le comptoir MAC, located on the ground floor between the Macdonald-Stewart Building and Barton Library.

8.4.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from August 24, 2014 to April 30, 2015. 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 start date of the lease or remain in residence during the summer months. In these cases, you must apply to the Campus Housing Office; an additional fee will be charged if permission is granted. You can request permission to extend your stay in residence (at the normal weekly charge) if you are taking extended courses after the regular session, employed on campus, or registered for summer courses.

In exceptional circumstances, international students or students coming from a distance may be admitted early. Permission from the Campus Housing Office must be obtained prior to arrival. Student Monitors may be admitted before the opening date of courses, if permission is granted by the Campus Housing Office.

Note for Graduate and Postdoctoral Studies: Graduate students sign a 12-month lease.

8.4.2.3 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. Le comptoir MAC 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 of the Campus Housing Office.

8.4.2.4 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.

8.5 Athletics & Recreation

8.5.1 Downtown Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment. Facilities include a gymnasium, fully-equipped fitness centre, varsity weight room, pool, arena, fieldhouse, stadium, indoor and outdoor running tracks and tennis courts, squash and racquetball courts, spinning, dance and martial arts studios, and various playing fields.

McGill students can participate in instructional, recreational, intramural, and intercollegiate activities, as well as sports clubs. There are nominal fees for instructional courses, intramurals, and membership to the Fitness Centre.

McGill Sports Complex
475 Pine Avenue West
Telephone: 514-398-7000
Email: perry.karnofsky@mcgill.ca (recreational sports) or lisen.moore@mcgill.ca (intercollegiate sports)
Website: www.mcgillathletics.ca
Mobile Website: m.athletics.mcgill.ca
Facebook: www.facebook.com/mcgillathleticsandrecreation
Twitter: www.twitter.com/McGillAthletics

8.5.2 Macdonald Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment, free of charge. Facilities include a gymnasium, weight room, arena, tennis courts, playing fields, and large expanses of green space. Students can participate in instructional, recreational, intramural, and intercollegiate activities. There are nominal fees for intramurals and fitness courses.

Athletics offices are located in the Stewart Athletic Complex, just west of the Centennial Centre.
8.6 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 the beginning of the complaint process, and to attempt to resolve issues informally before they proceed 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

8.7 Extra-Curricular Activities

There are over 250 activities, clubs, and services that students may join. These include international clubs; religious groups; political clubs; communications groups such as Radio McGill (CKUT), the McGill Tribune, and the McGill Daily; and some 50 miscellaneous groups (e.g., science clubs; literary, theatrical, and musical societies; a chess club; and the McGill Outdoors Club).

The University Centre, 3480 McTavish Street, provides club rooms for these activities in a four-storey building with cafeterias, a ballroom, lounges and an experimental theatre. Activities for graduate students are centred in David Thomson House at 3650 McTavish Street. On the Macdonald campus, facilities are located in the Centennial Centre. Refer to the eCalendar under Faculties & Schools > Faculty of Agricultural and Environmental Sciences.

8.8 Bookstore

The McGill University Bookstore stocks new and used textbooks, a full range of books for the academic and professional community, stationery supplies, and McGill insignia clothing and gift items. Visit the Bookstore website or in person to sign up for email reminders so you are the first to know about services such as used textbook buy-back and other events.

3420 McTavish Street
Telephone: 514-398-7444
Website: www.mcgill.ca/bookstore

Macdonald Bookstore
Centennial Centre
Telephone: 514-398-8300
Website: http://mcss.mcgill.ca/en/bookstore

8.9 Computer Store

The McGill Computer Store, located on the second floor of the University Bookstore, sells a full range of computer hardware, software, peripherals, and consumer electronics at educational prices.

3420 McTavish Street
Telephone: 514-398-5025
Email: sales.mcs@mcgill.ca
Website: www.mcgill.ca/mcs
### 8.10 Day Care

The McGill Childcare Centre is an independently run centre that can accommodate 106 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](http://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

### 9 Fees

The information in this publication was updated in early May 2014. **The University reserves the right to make changes without notice in the published scale of fees.**


For information on financial support, see the [eCalendar](http://www.mcgill.ca/academic-calendar) under University Regulations and Resources > Undergraduate > Scholarships and Student Aid.  

**Note for Graduate and Postdoctoral Studies:** For information on financial support, see [www.mcgill.ca/gps/funding/students-postdocs](http://www.mcgill.ca/gps/funding/students-postdocs).

### 9.1 Access to Fee Information

You can view your [Account Summary by Term](http://minerva.mcgill.ca/) on Minerva. The Fall 2014 term fees will be accessible as of August 1.

### 9.2 Tuition Fees

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

#### 9.2.1 Quebec Students and Non-Quebec (Canadian or Permanent Resident) Students

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

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

#### 9.2.2 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/legaldocuments. 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 Information.

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

9.2.3 Tuition Assistance for McGill Staff

McGill staff may be entitled to a tuition waiver equivalent to 100% of the portion of eligible tuition fees. For complete details, refer to the policies and procedures found at www.mcgill.ca/hr/bp/benefits/forms. 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.

9.2.4 Staff Dependent Waivers

Students who are dependents of staff members or pensioners may qualify for a fee reduction. You may complete and submit the application form at www.mcgill.ca/adminhandbook/personnel-policies-and-procedures/staff-dependent-tuition-waiver.

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/adminhandbook/personnel-policies-and-procedures/staff-dependent-tuition-waiver.

9.3 Documentation

For more information on documentation, see the eCalendar under University Regulations and Resources > Graduate > Regulations > section 2.17.1: Why Does McGill Collect Legal Documents from You?.

9.4 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.

9.4.1 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; Mental Health 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.

9.4.2 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.

9.4.3 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 www.ihaveaplan.ca/pgss 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-fee/non-tuition-charges/insurance.
9.5 Administrative Charges

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

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

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

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

Copyright Fee – All students in courses and programs are 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

9.6 Other Fees

Other Fees (rates as of 2014–2015)

International Student Health and Accident Plan (compulsory)

<table>
<thead>
<tr>
<th>Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>$849</td>
</tr>
<tr>
<td>Dependent (one student with one dependent)</td>
<td>$2,604</td>
</tr>
<tr>
<td>Family (one student with two or more dependents)</td>
<td>$4,953</td>
</tr>
</tbody>
</table>

Application for Admission (students applying to the Winter 2015 term)

Undergraduate application fees

<table>
<thead>
<tr>
<th>Program</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>All undergraduate programs, excluding Medicine</td>
<td>$102.20</td>
</tr>
<tr>
<td>Medicine</td>
<td>$143.08</td>
</tr>
</tbody>
</table>

Other application fees

<table>
<thead>
<tr>
<th>Program</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Continuing Studies</td>
<td>$80</td>
</tr>
<tr>
<td>Special Intensive Language Programs (SCS)</td>
<td>$80</td>
</tr>
<tr>
<td>Graduate Studies*</td>
<td>$104.86</td>
</tr>
<tr>
<td>Exchange</td>
<td>$150</td>
</tr>
<tr>
<td>Summer</td>
<td>$50</td>
</tr>
</tbody>
</table>
### Other Fees (rates as of 2014–2015)

* All students making application to Graduate and Postdoctoral Studies are required to pay this fee, including those already registered at McGill. If a department or an applicant defers an admission within the following year, the application fee need not be paid again.

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Admission appeals charge</td>
<td>$100</td>
</tr>
<tr>
<td>Late Registration</td>
<td></td>
</tr>
<tr>
<td>After the regular registration deadline (August 14th):</td>
<td></td>
</tr>
<tr>
<td>All eligible returning and new students, except Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.</td>
<td>$125</td>
</tr>
<tr>
<td>Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.</td>
<td>$62.50</td>
</tr>
<tr>
<td>Late Course Change Fee</td>
<td>$50</td>
</tr>
<tr>
<td>Registration Cancellation Fee upon withdrawal (or if newly admitted students, the deposit)</td>
<td>$200</td>
</tr>
<tr>
<td>Rereading Examination Paper (refundable if the letter grade is increased)</td>
<td>$36.70</td>
</tr>
<tr>
<td>Supplemental Examinations, each written paper</td>
<td>$36.70</td>
</tr>
<tr>
<td>Duplicate ID Card</td>
<td>$25</td>
</tr>
<tr>
<td>Duplicate Diploma</td>
<td>$120 per copy</td>
</tr>
<tr>
<td>Duplicate Certification</td>
<td>$15 per copy</td>
</tr>
<tr>
<td>Records Changes After Registrar Deadlines (see <em>section 2.9.3: Changes to Student Records after Normal Deadlines</em>)</td>
<td>$50 per record change</td>
</tr>
<tr>
<td>Transcript Special Handling</td>
<td>$15</td>
</tr>
<tr>
<td>Transcript Requests from Former Students (if you have not been registered at McGill in the last 12 months)</td>
<td>$10 per transcript</td>
</tr>
<tr>
<td>Late Payment Fee (charged at the end of October for the Fall term, or at the end of February for the Winter term):</td>
<td></td>
</tr>
<tr>
<td>• Balances between $100.01 and $300</td>
<td>$25</td>
</tr>
<tr>
<td>• Balances between $300.01 and $1,000</td>
<td>$50</td>
</tr>
<tr>
<td>• Balances greater than $1,000</td>
<td>$75</td>
</tr>
<tr>
<td>Interest on outstanding balances (rate determined in February, to be applicable on June 1, is 1.24% monthly or 14.88% annually)</td>
<td></td>
</tr>
<tr>
<td>Returned cheque or Pre-Authorized Debit payment**</td>
<td>$40</td>
</tr>
</tbody>
</table>

** Please note that the $40 fee for returned cheques and pre-authorized debit payments is in addition to the value of the amount debited for the returned item in question. For transactions in Canadian dollars, the amount debited is the same as the amount paid. For transactions in other currencies, including pre-authorized...
### Other Fees (rates as of 2014–2015)

Debit payments in US dollars, accounts will be debited at the exchange rate charged by the bank to the University. This sometimes represents a significant difference from the amount originally paid, depending on the rate of exchange on the date of the return.

**Cheque Refund Charge:**

- On balances less than $100: $10
- On balances $100 and over: $20

**Schulich School of Music fees:**

- Audition Fee: $62.91
- Late Music Placement Examination Fee: $50
- Late application fee for Music Performance examination (requires the permission of the Chair of the Department of Performance): $50
- Music Private Lessons Fee (MUIN, MUPG subject code courses): $524.29
- Music Practical Instruction: part-time or Special Student status, or 2nd instrument or voice, or in excess of quota; 1 hr/wk lessons: $823.13
- Music Practical Instruction: part-time or Special Student status, or in excess of quota; 1.5 hr/wk lessons (Artist Diploma): $1,232.07
- Music Practical Instruction: part-time or Special status, or in excess of quota; Voice Coaching; 1 hr/wk lessons: $576.71

**Reinstatement penalty:** $150 (see Cancelling Registration for Non-Payment in section 9.9.1: Overdue Accounts)

### 9.7 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/applying/knowningstatus](http://www.mcgill.ca/applying/knowningstatus) 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 email on a regular basis in no way warrants the cancellation of interest charges and/or late payment fees. Refer to the Student Accounts website at [www.mcgill.ca/student-accounts](http://www.mcgill.ca/student-accounts) for information on payment due dates.
### Late Payment Charges:

If you have an outstanding balance greater than $100 on your account on October 31 (February 27 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.

### Billings and Due Dates: Guest Access on Minerva

You may choose to give access privileges to a guest on Minerva. These privileges include viewing e-bills/account summaries, tax receipts and e-payment. The www.mcgill.ca/student-accounts/parents-and-sponsors/guest-access web page describes how to set up this access. You must provide certain information about the individual to whom you wish to grant access to your fee-related information. The guest will be contacted by email and provided with a link to use within a designated time period.

You can revoke guest access privileges at any time.

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

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

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

### 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 2.7: 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 2.7: 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.

### 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 the eCalendar under University Regulations and Resources > Graduate > Regulations > Registration > section 2.3.3: 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.

#### Fall Term – up to and including September 23

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).

#### Fall Term – after September 23

No refund.

#### Winter Term – up to and including January 27

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).
9.8.1.4 Winter Term – after January 27

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).

9.8.2 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, however, request your credit balance to be refunded at any time, after the course withdrawal with full refund period has passed. For directions on requesting your refund online in Minerva, see www.mcgill.ca/student-accounts/your-account/requesting-refund.

9.9 Other Policies Related to Fees

The following sections describe other fee-related policies that may apply to your account.

9.9.1 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%, multiplied by the balance outstanding at the end of the month (14.88% annually). The rate is evaluated each Spring, and then is set for the following academic year.

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

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

9.9.1.1 Information for Registered Students

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

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

9.9.1.2 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.

9.9.1.3 Cancelling Registration for Non-Payment

In accordance with the fee policy stated in section 9.9.1: Overdue Accounts, before the University cancels your future term registration(s), the Student Accounts Office will make all reasonable efforts to notify you if your account is delinquent, or if you owe more than $100 from the previous term. The cancellation is effective the last day of the add/drop period unless you settle the account or make payment arrangements with the University by then. If you pay or make payment arrangements with the Student Accounts Office after the add/drop deadline and you want the University to reinstate your registration for the current or subsequent term(s), you must complete the Request for Reinstatement form (www.mcgill.ca/student-accounts/forms) and submit it to the Student Accounts Office, which will forward it to Enrolment Services for approval and processing. Your fee account will be charged $150 (Reinstatement Penalty) for the processing of the re-enrolment.

9.9.2 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](http://www.mcgill.ca/student-accounts/your-account/requesting-refund).

### 9.9.3 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.

### 9.9.4 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 tuition-fees/general-information/exchange-senior-citizens-part-time-and-double-program#double-program](http://www.mcgill.ca/student-accounts tuition-fees/general-information/exchange-senior-citizens-part-time-and-double-program#double-program) for further details.

You should consult the Student Accounts Office at [student.accounts@mcgill.ca](mailto: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.

### 9.9.5 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 tuition-fees/general-information/grad-studies-information](http://www.mcgill.ca/student-accounts tuition-fees/general-information/grad-studies-information).

### 9.9.6 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](mailto:Scholarships and Student Aid Office) for more information at 514-398-6013.

### 9.9.7 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 2.2.14: Quebec Inter-University Transfer Agreement: McGill Students. The agreement covers only the transfer of academic credits.

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

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

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

### 9.10 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](http://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.**

### 9.11 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.

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.
9.12 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 (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” 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 that students who apply late may not request cancellation of interest.

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

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

9.13 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.

9.14 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.

9.15 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.

9.16 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 > Master’s Degrees and Program Requirements > Doctoral Degrees, found under each faculty’s Graduate section in the eCalendar.

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.

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 at www.mcgill.ca/student-accounts/ for the current fees payable by graduate-level students.

### 10 For your Information Technology (IT) needs

McGill’s IT Services website is your one-stop shop for all central IT services at McGill. Visit www.mcgill.ca/it to:

- Find details on all IT services, including available training and support. Services are organized by categories such as “Telephone, Network, and Wireless.”
- Search the McGill IT Knowledge Base for FAQs and supporting articles on all IT services. Search by keywords such as “myMcGill,” or by specific article number.
- Send us your feedback or get help on an IT issue.
- Read featured articles on computer security, new software, and other timely tips.
- Find out about new IT projects on the horizon.
- Check the status of IT systems at a glance and view IT announcements and scheduled downtimes.

Take an interactive video tour of IT services at http://kb.mcgill.ca/it/welcome-students. Here you’ll learn about myMcGill, the University portal, and myCourses (for online course content). You’ll also find information on accessing your McGill email, connecting to the McGill wireless network, and downloading free software available to students.

### 10.1 Logging In

You need to use your McGill Username (usually in the form of firstname.lastname@mail.mcgill.ca) and McGill Password to access most central IT services including: myMcGill, myCourses, email, wireless, and Virtual Private Network (VPN).

For some systems, such as uPrint, you may sign in using your McGill Short Username, i.e., the first letter of your first name + first five letters of your last name, usually followed by a number (e.g., jsmith5).

To find out your McGill Username and Short Username, and to create or reset your McGill Password:

1. Log in to Minerva (www.mcgill.ca/minerva) using your 9-digit McGill ID number and PIN.
2. Go to Personal Menu > Password for McGill Username.
3. Follow the onscreen instructions.

### 10.2 myMcGill (the University portal)

myMcGill is the central access point where you:

- Read your email.
- Check myCourses.
- Get direct links to Minerva to view and update your student records and account information.
- Search the McGill Library Catalogue.
- Keep abreast of the latest McGill news.

Click myMcGill in the Quick Links menu, at the top of any McGill web page (www.mcgill.ca), and sign in using your McGill Username and McGill Password.
10.2.1 Browser Compatibility

myMcGill currently supports the latest versions of the following browsers:

- Internet Explorer (IE) (Windows)
- Firefox (Mozilla) (Windows/Macintosh)

10.3 myCourses

Many of your courses will have online materials or activities such as assignments and readings, syllabuses, project guidelines, discussion forums, calendars, etc.

Access your online course content via the myCourses link within the myMcGill portal.

- Verify your browser settings by clicking System Check in the Support widget on the myCourses home page.
- Watch myCourses videos for students and access help documentation from the IT Knowledge Base.

Find more information on myCourses for students at: www.mcgill.ca/it.

10.4 Email

Your McGill Email Address (usually in the form of firstname.lastname@mail.mcgill.ca) is the University's official means of email communication with you. For information on the policy, see E-mail Communications with Students at www.mcgill.ca/secretariat/policies/informationtechnology. Access your email at https://exchange.mcgill.ca or through the myMcGill portal using your McGill Username and McGill Password. View your McGill Username, McGill Email Address and set up your McGill Password on the Minerva Personal Menu.

10.5 Online Student Directory

You can opt in to the student directory and make it easier for your fellow classmates to contact you. Find more on this service at www.mcgill.ca/directory/students.

10.6 Getting Connected

You will need to use your McGill Username and McGill Password to access the services listed below. You can find more details on these services at www.mcgill.ca/it:

- **Wireless:** Through the McGill Wireless network, you can access the Internet using your laptop or other mobile device from virtually anywhere on campus and also on the inter-campus shuttle buses. Log in to the Wireless network using your McGill Username and McGill Password. Find configuration instructions for your computer/phone in the IT Knowledge Base at www.mcgill.ca/it.

- **EZproxy:** If you are off-campus, you will need to sign into EZproxy before gaining access to restricted McGill Library databases and other library resources. For more details on EZproxy, search the IT Knowledge Base at www.mcgill.ca/it.

- **McGill Residences Telecommunications:** For students living in McGill Residences and McGill Off-Campus Residences, there is REZ Voice and Data service (wired and wireless). For more information search the IT Knowledge Base at www.mcgill.ca/it.

10.7 Safe Computing

- **Free antivirus software:** Download free antivirus software to protect your computer at http://kb.mcgill.ca/it/antivirus.

  - **Note:** Be sure to uninstall any previous antivirus software from your computer before installing new antivirus software.

- **Tips for keeping information secure:** Read about steps you can take to protect your data and identity at www.mcgill.ca/it/information-security.
10.8 Set Up Your Security Questions in myMcGill

Setting up your security questions and answers for your McGill Password allows you to use the Forgot Password? link found on several McGill applications, in case you forget it.

Once you have set up your McGill Password in Minerva, log in to myMcGill (https://mymcgill.mcgill.ca) and click the link in the McGill Password Security portlet. Follow the onscreen instructions to set up your own security questions and responses.

10.9 Need Help?


McGill IT Knowledge Base: Search the IT Knowledge Base at http://kb.mcgill.ca for setup instructions and answers to commonly asked questions about IT.

10.9.1 Getting Help

Contact the IT Service Desk by submitting your request via a web form at www.mcgill.ca/it/get-started-it/need-help, or check phone and walk-in support hours at www.mcgill.ca/it.

11 McGill Writing Centre

The McGill Writing Centre (MWC) offers credit courses in academic writing that may be taken to fulfill language requirements or as electives in some degree programs. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before you take courses outside of your faculty, especially if the courses 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.

List of Undergraduate Courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEAP 250</td>
<td>Research Essay and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CESL 299</td>
<td>ESL: Academic English Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CESL 300*</td>
<td>ESL: Academic English 2</td>
<td>3</td>
</tr>
<tr>
<td>CESL 400*</td>
<td>ESL: Essay &amp; Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>CESL 500*</td>
<td>ESL: Research Essay and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>CCOM 206**</td>
<td>Communication in Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes:

* Placement tests are required for admission to CESL 300, CESL 400, and CESL 500. Please consult the MWC website at www.mcgill.ca/mwc for details of the date and location of placement tests.

** CCOM 206 is a required course for and restricted to students pursuing a B.Sc. in Engineering.

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

List of 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 643</td>
<td>Literature Reviews and Scholarly Niches</td>
<td>1</td>
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<tr>
<td>CEAP 652</td>
<td>Fundamentals of Academic Presentations</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>
**Note:** MWC graduate courses are not open to postdoctoral fellows.

**Course for School of Continuing Studies Students**

| CCOM 205 | Communications in Management 1 |

**Note:** CCOM 205 is required for and restricted to students in Career and Professional Development programs offered by the School of Continuing Studies.

### 11.1 McGill Writing Centre Contact Information

McGill Writing Centre
McLennan-Redpath Library
Main Floor, Room #02
3459 McTavish Street
Montreal, Quebec 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 250 and CCOM 205 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. Carolyn Samuel
Email: carolyn.samuel@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-1712

Inquiries concerning CCOM 206 and CESL 500 should be directed to:

Prof. Robert Myles
Email: robert.myles@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-3320

Inquiries concerning graduate writing and scholarly communication courses should be directed to:

Dr. Scott Kushner
Email: scott.kushner@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
12 Resources for Study and Research

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

12.1 Libraries

Located across both campuses, the McGill Library system consists of eight library branches, two special reserve collections in education and life sciences, one reading room, and the McGill University Archives. Numbering over six million items, the Library's vast holdings include: 2.5 million books; thousands of journal titles; vast manuscript and pictorial collections; and hundreds of thousands of sound and video recordings. The Library's e-resources are extensive, and include over 100,000 e-journals and four million e-books on subjects ranging from early English literature to nutrition.

A comprehensive website (www.mcgill.ca/library), an online catalogue, and a wide range of library services link the Library's resources to those who need them for learning, research, and scholarship. Hundreds of databases on topics from art history to zoology guide users to relevant journal articles and research materials, while subject guides on topics like chemistry and social work provide comprehensive and clear direction for users undertaking research. Unique scholarly materials from the Rare Books and Special Collections are digitized and also made widely accessible online through the site. The Library's website also provides access to items such as past examination papers, McGill theses, and foreign newspapers. All electronic resources are available for use in laboratories anywhere on the campus or from home using EZproxy.

The staff in each branch library can help you locate information for coursework, assignments, or research topics. Training is provided at all student levels to ensure you know how to find and use information. Information skills programs are undertaken as part of course curricula. Liaison librarians specialize in specific disciplines, and are available to assist students and staff in person, on the phone, online, by email, and via online chat.

Although opening hours vary, most libraries are open up to 90 hours per week, and several branch libraries extend opening hours during examination periods. Hundreds of computers are available for email, word processing, accessing online courses, reading library materials, preparing assignments, and searching the Internet. Designed to enhance the learning experiences of diverse users, the Library's facilities offer a variety of comfortable and attractive spaces, including quiet individual study areas, dynamic e-zones, and group study rooms that can be booked for use. Wireless access is available throughout the library, and all libraries have ID card-operated printing and copying facilities. Special facilities are available for vision and hearing impaired users. Special library services like the Course Reserve collection located in each branch library allows 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 source it for you, and pickup is available at any branch.

12.2 University Archives

The McGill University Archives (MUA) acquires, preserves, and makes available to researchers (including students) more than 5,000 metres of records dating from 1797 to the present. These records document McGill University faculty, research, alumni, and student organizations, and certain Montreal-based organizations. Archived media include textual records, photographs, audio tapes, film, video, plans, University publications, and artifacts.

The MUA acquires private records to support University research goals and manages the University's corporate memory and information assets through its records management program. This program regulates the flow of administrative records and protects vital evidence of University functions and activities according to Quebec archives and records legislation.

The MUA Reading Room is open Monday to Friday, from 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
Telephone: 514-398-4711
Fax: 514-398-8456
Email: refdesk.archives@mcgill.ca
Website: www.archives.mcgill.ca

12.3 Redpath Museum

The Redpath Museum is an academic unit of McGill University. Its mission is to foster understanding and appreciation of the diversity of our biological, geological, and cultural heritage through scientific research, collections-based study, and education. Its collections have been growing for over a century, and provide resources for research and for graduate and undergraduate education in biology, geology, anthropology, and other fields. Its largest collections include fossils from the ancient sea floor of eastern Quebec, the oldest land plants, a vast range of minerals, molluscs from around the world, Egyptian and classical antiquities, and artifacts from Central Africa. The Museum also houses research laboratories and classrooms.
The Museum welcomes McGill students and staff to visit its permanent exhibit, which presents the history of life through the ages illustrated by material from Quebec and neighbouring regions, as well as displays that feature the mineral and mollusc collections. The Museum also features an ethnology gallery devoted to cultures throughout the world, including ancient Egypt, classical Greece and Rome, Asia, and Africa.

859 Sherbrooke Street West
Telephone: 514-398-4086
Email: redpath.museum@mcgill.ca
Website: www.mcgill.ca/redpath

12.4 McCord Museum of Canadian History

The McCord Museum houses one of the finest historical collections in North America. It possesses some of Canada’s most significant cultural treasures, including the most comprehensive collection of clothing—comprising over 16,000 garments or accessories—made or worn in Canada; an extensive collection of First Nations artifacts—the most important of its kind in Quebec with a corpus of over 13,000 objects from across Canada; and the renowned Notman Photographic Archives, which contain over one million historical photographs and offers a unique pictorial record of Canada from pre-Confederation to the present. The McCord also houses paintings by renowned artists such as Théophile Hamel, Cornelius Krieghoff, James Pattison Cockburn, and George Heriot. The Museum's Textual Archives include some 185 linear metres of documents relating to Canadian history. Finally, the McCord's website (www.mccord-museum.qc.ca) features award-winning virtual exhibitions, innovative learning resources, and a vast, searchable database of information on the Museum's collections.

Exhibitions at the McCord provide innovative interpretations of the social and cultural history of Montreal, Quebec, and Canada. In addition to guided tours, school programs, cultural activities, and lectures, the McCord offers a range of services including the Museum Café and boutique.

Researchers are welcome by appointment.

690 Sherbrooke Street West
Telephone: 514-398-7100
Email: info@mccord.mcgill.ca
Website: www.mccord-museum.qc.ca

12.5 Lyman Entomological Museum and Research Laboratory

Located on the Macdonald campus, this institution is the insect collection and systematic entomology laboratory of McGill University. The collection houses 2.8 million specimens of insects and other arthropods, making it the second-largest insect collection in Canada, and the largest university insect collection in the country. The Lyman Museum is not generally open to the public since its main functions are research and teaching, not exhibitions. However, tours are available by appointment to interested parties.

Telephone: 514-398-7914
Website: http://lyman.mcgill.ca

12.6 Other Historical Collections

In addition to the McGill museums, there are other collections and exhibits of a specialized nature, ordinarily open only to students. For access, contact the appropriate department. These include the Medical Museum.

The Medical Museum is a repository of material dating from the late 19th century that documents the study and practice of Medicine at McGill University and its associated teaching hospitals. The major part of the collection consists of pathologic specimens, including those in the Abbott and Osler collections. The material is housed in the Lyman Duff Medical Building. A showcase in the Pine Street entrance hallway displays temporary exhibits. For more information, see the Museum website www.mcgill.ca/medicalmuseum.

The McGill Physics Department has two specialized collections that may be viewed by appointment:

- The Rutherford Museum contains original apparatus and other items used by Professor Ernest Rutherford in his Nobel Prize–winning research at McGill University on radioactivity (1898–1907). For more information, see www.physics.mcgill.ca/museum/rutherford_museum.htm.
- The McPherson Collection comprises a wide range of historical apparatus and instruments used for measurements and investigations, with special emphasis on 19th-century physics. For more information, see www.physics.mcgill.ca/museum/macpherson_collection.htm.
The University

McGill University is one of Canada's best-known institutions of higher learning and one of the country's leading research-intensive universities. With students coming to McGill from about 150 countries, our student body is the most internationally diverse of any medical-doctoral university in Canada.

History

The Hon. James McGill, a leading merchant and prominent citizen of Montreal, who died in 1813, bequeathed an estate of 46 acres called Burnside Place together with £10,000 to the "Royal Institution for the Advancement of Learning" upon condition that the latter erect "upon the said tract or parcel of land, an University or College, for the purpose of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

At the time of James McGill's death, the Royal Institution, although authorized by law in 1801, had not been created, but was duly instituted in 1819. In 1821 it obtained a Royal Charter for a university to be called McGill College. Further delay was occasioned by litigation, and the Burnside estate was not acquired until March 1829. The Montreal Medical Institution, which had begun medical lectures at the Montreal General Hospital in 1822, was accepted by the College as its Faculty of Medicine in June 1829. After further litigation, the College received the financial endowment in 1835 and the Arts Building and Dawson Hall were erected. The Faculty of Arts opened its doors in 1843.

Progress, however, was slow until the 1821 Charter was amended in 1852 to constitute the members of the Royal Institution as the Governors of McGill College. Since that time the two bodies have been one. It was first called "The University of McGill College" but in 1885 the Governors adopted the name "McGill University." Even after the amended charter was granted, little advance was made until 1855 when William Dawson was appointed Principal. When he retired 38 years later, McGill had over 1,000 students and Molson Hall (at the west end of the Arts Building), the Redpath Museum, the Redpath Library, the Macdonald Buildings for Engineering and Physics, and a fine suite of medical buildings had been erected.

Since then the University has continued to grow vigorously. In 1884, the first women students were admitted and in 1899 the Royal Victoria College was opened, a gift of Lord Strathcona, to provide separate teaching and residential facilities for women students. Gradually, however, classes for men and women were merged.

In 1905 Sir William Macdonald established Macdonald College at Sainte-Anne-de-Bellevue, as a residential college for Agriculture, Household Science, and the School for Teachers. Those components have since become the Faculty of Agricultural and Environmental Sciences, which includes the School of Dietetics and Human Nutrition, on the Macdonald campus, and the Faculty of Education, located on the Downtown campus. The University's general development has been greatly facilitated by the generosity of many benefactors, and particularly by the support of its graduates, as regular public funding for general and capital expenditures did not become available until the early 1950s. Since that time government grants have become a major factor in the University's financial operations, but it still relies on private support and private donors in its pursuit of excellence in teaching and research.

The University now comprises 11 faculties and 10 schools. At present over 32,000 students are taking credit courses; one in four is registered in Graduate Studies.

The University is also active in providing courses and programs to the community through the School of Continuing Studies.

Incorporated and Affiliated Colleges

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.

Affiliated Theological Colleges

Montreal Diocesan Theological College

3473 University Street, Montreal, QC H3A 2A8
Principal: J. M. Simons; B.A.(Bishop's), S.T.B.(Trin. Coll. (Tor.)), Ph.D.(G'town)
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.

13.3 University Government

McGill University is a corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor General as Visitor.

The Governors of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec. In them is vested the management of finances, the appointment of professors, and other duties. Twelve of the governors are elected by the Board from amongst those nominated by its membership committee; three are elected by the Alumni Association; two are elected by Senate from amongst its members; two elected by the full-time administrative and support staff from amongst its members; two elected by the full-time academic staff; and two elected by students from amongst the student body. The Board elects the Chancellor of the University and also, from amongst its members, a chair to preside at its meetings, who may also be the Chancellor. The Chancellor and the Principal are ex officio members.

The Chancellor is presiding officer of Convocation and of joint sessions of the Board of Governors and the Senate.

The Chair of the Board of Governors is President of the Royal Institution for the Advancement of Learning.

The Principal and Vice-Chancellor is the chief executive officer of the University, appointed by the Board of Governors after consultation with a Statutory Committee to Nominate a Principal. The Principal is, ex officio, Chair of Senate.

The Senate is the highest academic authority of the University and has control over admission, courses of study, discipline, and degrees. The regulations of Senate are executed by the various faculties and schools, which also carry primary responsibility for the educational work of the University.

13.4 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.

13.5 Governance: Board of Governors

13.5.1 The Visitor

The Visitor

His Excellency The Right Honourable David L. Johnston

The Governor General of Canada
## 13.5.2 Board of Governors

### Board of Governors

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Stuart (Kip) Cobbett; B.A., B.C.L.(McG.)</td>
<td>Chair</td>
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<tr>
<td>Suzanne Fortier; B.Sc., Ph.D.(McG.)</td>
<td>Principal and Vice-Chancellor</td>
</tr>
<tr>
<td>Michael A. Meighen; B.A.(McG.), LL.L.(Laval)</td>
<td>Chancellor (Effective July 1, 2014)</td>
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### Members

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<tr>
<th>Name</th>
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<tr>
<td>Michael T. Boychuk; B.Com.(McG.)</td>
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<tr>
<td>Gerald Butts; B.A., M.A.(McG.)</td>
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<tr>
<td>Peter Coughlin; B.Com.(Car.), M.B.A.(W. Ont.)</td>
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<tr>
<td>Ronald Harry Critchley; B.A.(C'dia-Loyola), M.A.(York)</td>
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<tr>
<td>Kathy Fazel; B.Com.(McG.)</td>
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<tr>
<td>Dan Gagnier; M.A.(McG.)</td>
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<tr>
<td>Claude Généreux; B.Eng.(McG.), M.A.(Oxf.)</td>
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<td>Stephen Halperin; B.C.L., LL.B.(McG.)</td>
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<tr>
<td>David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina)</td>
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<td>Bryan Haynes; B.A., LL.B.(McG.)</td>
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<td>Tina Hobday; B.C.L., LL.B.(McG.)</td>
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<td>Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)</td>
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<td>David Kalant; B.Sc.(McG.), Ph.D.(C'dia)</td>
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<tr>
<td>Samuel Minzberg; LL.B.(McG.)</td>
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<tr>
<td>Ram Panda; M.Eng., M.B.A.(McG.)</td>
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<tr>
<td>Cynthia Price; B.Com.(McG.)</td>
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<tr>
<td>Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.)</td>
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<tr>
<td>Martine Turcotte; B.C.L./LL.B.(McG.), M.B.A.(London Business School)</td>
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<tr>
<td>Thierry Vandal; B.Eng., M.B.A.(Montr.)</td>
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<tr>
<td>Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)</td>
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### Student Representatives

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Students’ Society of McGill (1)</td>
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<tr>
<td>Post-Graduate Students’ Society of McGill (1)</td>
<td></td>
</tr>
</tbody>
</table>

### Observers

- McGill Association of Continuing Education Students (1)
- Macdonald Campus Students’ Society (1)
### 13.6 Governance: Members of Senate

#### 13.6.1 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

#### 13.6.2 Elected Members

*Elected Members*

63 members elected by the faculties, the University Libraries, the Board of Governors, and administrative and support staff

- Medical Residents or Postdoctoral Scholars Group (1)
- Student Members (19)

### 13.7 Administration

*Administration*

- Michael A. Meighen; B.A.(McG.), L.L.L.(Laval) *(Effective July 1, 2014)*
- Suzanne Fortier; B.Sc., Ph.D.(McG.)
- Anthony C. Masi; A.B.(Colgate), Ph.D.(Brown)
- Ollivier Dyens; B.F.A.(C'dia), M.A., Ph.D.(Montr.)
- Kathleen Massey; B.A.(York), M.A.(R. Roads)
- Jana Luker; B.A.(Guelph), B.Ed., M.Ed.(Tor.)
- Ghyslaine McClure; B.Eng.(Montr.), S.M.(MIT), Ph.D.(Montr.)
- Jan Jorgensen; B.A., M.A.(N. Carolina), Ph.D.(McG.)
- Lydia White; B.A., M.A.(Camb.), Ph.D.(McG.)
- Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)
- Chandra Madramootoo; B.Sc., M.Sc., Ph.D.(McG.)
- Ghilaine Roquet; B.A.(UQAM), M.Sc.A.(Montr.)
- Stephen Strople; B.A.(Dal.), M.A.(York)

- **Chancellor**
- **Principal and Vice-Chancellor**
- **Provost**
- **Deputy Provost (Student Life & Learning)**
- **University Registrar and Executive Director of Enrolment Services**
- **Executive Director of Services for Students**
- **Associate Provost (Academic Staff & Priority Initiatives)**
- **Associate Provost (Faculty Affairs & Resource Allocation)**
- **Associate Provost (Policies, Procedures & Equity)**
- **Associate Provost (Graduate Education) and Dean (Graduate & Postdoctoral Studies)**
- **Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural & Environmental Sciences)**
- **Chief Information Officer**
- **Secretary-General**
- **Vice-Principal (Administration & Finance)**
Agricultural and Environmental Sciences

14.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21\(^{st}\) by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

14.2 Graduate and Postdoctoral Studies

14.2.1 Administrative Officers

Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>
14.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

14.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

14.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

14.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

14.5 Program Requirements

14.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

14.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form in accordance with the dates on [www.mcgill.ca/importantdates](http://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](http://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](http://www.mcgill.ca/gps/thesis/guidelines).

### 14.5.3 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.

### 14.5.4 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/gpo/students/registration#coursereg](http://www.mcgill.ca/gpo/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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

### 14.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's *University Regulations and Resources > Graduate > section 5: 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 the eCalendar's University Regulations and Resources > Graduate > section 6: 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 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—on the web at www.mcgill.ca/gps/postdocs/fellowslletter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

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 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.

14.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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 the eCalendar under University Regulations and Resources > Graduate > section 7: 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 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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 Agricultural Economics

14.11.1.1 Location

Department of Agricultural Economics
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada

Telephone: 514-398-7838
Email: gradstudies.macdonald@mcgill.ca
Website: http://agrecon.mcgill.ca
14.11.1.2 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, and 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, visit http://agrecon.mcgill.ca/grad.htm.

14.11.1.3 Agricultural Economics Admission Requirements and Application Procedures

14.11.1.3.1 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.


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 section 5.3: 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:

- Curriculum Vitae
- Research Proposal – not required, but highly recommended
- Letters of Reference (2) must be printed on the letterhead of the referee's university or organization, and uploaded to the McGill application system
- The GRE is not required, but it is highly recommended

14.11.1.3.3 Application Deadlines

The application deadlines listed here 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.

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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.

14.11.1.4 Agricultural Economics Faculty

**Program Director**

J.C. Henning

**Associate Professors**

J.C. Henning; B.Sc., Ph.D.(Guelph)

P.J. Thomassin; B.Sc.(Agr.)(McG.), M.S., Ph.D.(Hawaii Pac.)

**Assistant Professor**

N. Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Kent), M.Sc., Ph.D.(Univ. Autonoma de Barcelona)
14.11.2 Animal Science

14.11.2.1 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

14.11.2.2 About Animal Science

The Department of Animal Science provides exciting challenges to graduate students in the areas of Biotechnology and Molecular Biology, Breeding and Genetics, Nutrition, and Reproductive Physiology 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.

14.11.2.5: 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.

14.11.2.6: 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.

14.11.2.7: 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.

14.11.2.8: 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.

14.11.2.3 Animal Science Admission Requirements and Application Procedures

14.11.23.1 Admission Requirements

M.Sc. (Thesis)

Candidates are required to have either a bachelor's degree in Agriculture or a B.Sc. degree in an appropriate, related discipline with an equivalent cumulative grade point average of 3.0/4.0 (second class – upper division) or 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. (Applied)
All candidates are required to have a B.Sc. degree or equivalent.

Ph.D.
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.

14.11.232 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.
See section 5.3: Application Procedures for detailed application procedures.

14.11.23 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 is not required, but it is highly recommended.

14.11.233 Application Deadlines
The applications deadlines listed here 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.

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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.

14.11.24 Animal Science Faculty

Chair
Kevin M. Wade

Emeritus Professors
R.B. Buckland; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Md.)
E.R. Chavez; Ing.Agr.(Chile), M.Sc., Ph.D.(Calif., Davis)
E. Donefer; B.Sc., M.Sc.(Cornell), Ph.D.(McG.)
B.R. Downey; D.V.M.(Tor.), Ph.D.(McG.)
U. Kühnlein; B.Sc.(Fed. Inst. of Tech., Zurich), Ph.D.(Geneva)
S. Touchburn; M.S.A.(Br. Col.), Ph.D.(Ohio St.)

Professors
J.F. Hayes; B.Agr.Sc., M.Agr.Sc.(Dublin), Ph.D.(N. Carolina St.)
X. Zhao; B.Sc., M.Sc.(Nanjing), Ph.D.(Cornell) (James McGill Professor)

Associate Professors
V. Bordignon; D.V.M.(URCAMP, Brazil), M.Sc.(UFPel, Brazil), Ph.D.(Montr.)
R.I. Cue; B.Sc.(Newcastle, UK), Ph.D.(Edin.)
**Associate Professors**

S. Kimmins; B.Sc.(Dal.), M.Sc.(Nova Scotia Ag.), Ph.D.(Dal.) (CRC Chair, Tier 2)
H. Monardes; Ing.Agr.(Concepcion, Chile), M.Sc., Ph.D.(McG.)
A.F. Mustafa; B.Sc., M.Sc.(Khartoum), Ph.D.(Sask.)
L.E. Phillip; B.Sc.(Agr.), M.Sc.(Agr.)(McG.), Ph.D.(Guelph)
K.M. Wade; B.Sc.(Agr.), M.Sc.(Agr.)(Dublin), Ph.D.(Cornell)
D. Zadworny; B.Sc., Ph.D.(Guelph)

**Assistant Professors**

M. Chénier; B.Sc.(Laval), M.Sc.(Queb.), Ph.D.(McG.)
R. Duggavathi; B.V.Sc., M.V.Sc.(Bangalore), Ph.D.(Sask.)

**Adjunct Professors**

B. Baurhoo, E. Ibeagha-Awemu, P. Lacasse, D. Lefebvre, B. Murphy, D. Soutschi

14.11.2.5 **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>
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<td>ANSC 681</td>
<td>(9)</td>
<td>M.Sc. Thesis 2</td>
</tr>
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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>
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<tbody>
<tr>
<td>ANSC 695</td>
<td>(1)</td>
<td>MSc General Topic Seminar</td>
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<td>ANSC 696</td>
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<td>MSc Research Proposal Seminar</td>
</tr>
<tr>
<td>ANSC 697</td>
<td>(1)</td>
<td>MSc Research Results Seminar</td>
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</table>

Depending on the needs and competencies of the student, additional coursework may be assigned by the supervisory committee.

14.11.2.6 **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)**

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ANSC 643</td>
<td>(3)</td>
<td>Project 1</td>
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<td>ANSC 644</td>
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<td>ANSC 645</td>
<td>(3)</td>
<td>Project 3</td>
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<td>ANSC 646</td>
<td>(3)</td>
<td>Project 4</td>
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<tr>
<td>ANSC 647</td>
<td>(3)</td>
<td>Project 5</td>
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</table>

**Complementary Courses (30 credits)**

15-30 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AEMA 610</td>
<td>(3)</td>
<td>Statistical Methods 2</td>
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</table>
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).

14.11.2.7 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

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
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<td>ANSC 701</td>
<td>(0)</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

Two seminar courses at the 500, 600, or 700 level.

14.11.2.8 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>
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<tr>
<td>ANSC 701</td>
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<tr>
<td>ANSC 797</td>
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<td>Animal Science Seminar 3</td>
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<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>
</tr>
</tbody>
</table>
Complementary Courses (6 credits)

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.

14.11.3 Bioresource Engineering

14.11.3.1 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.macdonald@mcgill.ca
Website: www.mcgill.ca/bioeng

14.11.3.2 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; and artificial intelligence. The Department also offers a Graduate Certificate in Bioresource Engineering (Integrated Water Resources Management). 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.

section 14.11.3.5: 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.

section 14.11.3.6: 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.

section 14.11.3.7: Master of Science (M.Sc.); Bioresource Engineering (Thesis) — Neotropical Environment (46 credits)

This option is a joint offering between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. This interdisciplinary option encourages and promotes ethically sound and socially significant learning in the global context of environmental problems. Participation in the MSE-Panama Symposium presentation in Montreal is a requirement of this program. This program trains students in the socio-political aspects of the Tropical Environment.

section 14.11.3.8: 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 watershed resources. 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.
GRADUATE AND POSTDOCTORAL STUDIES

section 14.11.3.9: 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.

section 14.11.3.10: 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.

section 14.11.3.11: 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.

section 14.11.3.12: 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.

section 14.11.3.13: Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) — Neotropical Environment (45 credits)

The non-thesis option is aimed at individuals already employed in industry or seeking to improve their skills in specific areas of the Tropical Environment. Participation in the MSE-Panama Symposium presentation in Montreal is a requirement of this program.

section 14.11.3.14: Doctor of Philosophy (Ph.D.); Bioresource Engineering

Please contact the Department for more information about this program.

section 14.11.3.15: 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.

section 14.11.3.16: Doctor of Philosophy (Ph.D.); Bioresource Engineering — Neotropical Environment

This is a research-based degree with a team of co-advisers from McGill and Latin America with the requirements of a one-year residency in Panama or tropical Latin America, three interdisciplinary courses, at least two of them focusing on North-South issues, proficiency in Spanish or Portuguese, one-time off-campus (Panama) fees, and the possibility of NEO-specific fellowships. Only the accredited professors listed on the NEO website can accept students in the option.

section 14.11.3.17: Graduate Certificate in Bioresource Engineering — Integrated Water Resources Management (15 credits)

The Graduate Certificate in Integrated Water Resources Management is for practising professionals who wish to upgrade or focus their skill set to address water management issues. Students are trained in Water Ethics, Law and Policy of Water Management, Freshwater Ecosystems, Health, and Sanitation.

14.11.3.3 Bioresource Engineering Admission Requirements and Application Procedures

14.11.3.3.1 Admission Requirements

Candidates for M.Sc. and Ph.D. degrees and Graduate Certificates should indicate in some detail their fields of special interest when applying for admission. An equivalent cumulative grade point average of 3.0/4.0 (second class – upper division) or 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.

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 section 5.3: Application Procedures for detailed application procedures.

14.11.3.3.2.1 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 is not required, but it is highly recommended.

14.11.3.3.3 Application Deadlines

The application deadlines listed here are set by the Bioresource Engineering 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></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: May 31</td>
<td>Fall: Mar. 15</td>
<td></td>
<td>Fall: Same as Canadian/International</td>
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<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Aug. 31</td>
<td></td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: Feb. 28</td>
<td>Summer: Jan. 31</td>
<td></td>
<td>Summer: Same as Canadian/International</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.

14.11.3.4 Bioresource Engineering Faculty

Chair
V. Orsat

Graduate Program Director
G.S.V. Raghavan

Associate Graduate Program Director
V. Orsat

Emeritus Professor
R.S. Broughton; B.S.A., B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), LL.D.(Dal.)

Professor (Post-Retirement)
R. Kok; B.E.Sc., Ph.D.(W. Ont.)

Professors
C.A. Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.), D.Sc.(Guelph) (James McGill Professor)
E. McKyes; B.Eng., M.Eng., Ph.D.(McG.)
M.O. Ngadi; B.Eng.(Agr.Eng.), M.A.Sc., Ph.D.(Dal.Tech.) (William Dawson Scholar)
S.O. Prasher; B.Tech., M.Tech.(Punj.), Ph.D.(Br. Col.), LL.D.(Dal.) (James McGill Professor)
G.S.V. Raghavan; B.Eng.(B'lore), M.Sc.(Guelph), Ph.D.(Colo. St.), D.Sc.(TNAU), D.Sc.(UAS Dharwad) (James McGill Professor)

Associate Professors
V.I. Adamchuk; B.Sc.(Kyiv, Ukraine), M.Sc., Ph.D.(Purd.)
V. Orsat; B.Sc., M.Sc., Ph.D.(McG.)
Assistant Professors
J. Adamowski; B.Eng.(RMC), M.Phil.(Camb.), M.B.A.(WUT, LBS, HEC, NHH), Ph.D.(Warsaw)
G. Clark; B.Sc.(Alta.), M.Sc., Ph.D.(McG.)
M.-J. Dumont; B.Eng, M.Sc.(Laval), Ph.D.(Alta.)
M. Lefsrud; B.Sc.(Sask.), M.Sc.(Rutg.), Ph.D.(Tenn.)
Z. Qi; B.Sc., M.Sc.(China Agr.), Ph.D.(Iowa)

Adjunct Professors
M. Clamen; B.Eng., Ph.D.(McG.)
F. Daneshmand; B.Sc., M.Sc., Ph.D.(Shiraz Univ.)
S. Dev; B.Sc.(TNAU), M.Sc., Ph.D.(McG.)
P. Jutras; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(McG.)
A. Madani; B.Sc., M.Sc.(Br. Col.), Ph.D.(WSU)
J. Martinez; M.Sc.(Polytechnic Inst. of Toulouse), Ph.D.(Univ. of Perpignan)
A. Mujumdar; B.Eng.(Bom.), M.Eng., Ph.D.(McG.)
B. Tartakovsky; M.Sc., Ph.D.(Moscow State Univ.)
C. Vigneault; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Faculty Lecturers
A. Cherestes; B.Sc., M.Sc.(Queens College), Ph.D.(CUNY)
M. Knutt; M.B.Sc.(W. Ont.), M.A., Ph.D.(Brandeis)

Research/Professional Associates
Y. Gariepy; B.Sc., M.Sc.(McG.)
D. Lyew; B.Sc., M.Sc., Ph.D.(McG.)
S. Sotocinal; B.Sc.(Phil.), M.Sc., Ph.D.(McG.)

Technical
S. Manktelow

14.11.3.5 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)
BREE 691 (4) M.Sc. Thesis 1
BREE 692 (4) M.Sc. Thesis 2
BREE 693 (4) M.Sc. Thesis 3
BREE 694 (4) M.Sc. Thesis 4
BREE 695 (4) M.Sc. Thesis 5
BREE 696 (4) M.Sc. Thesis 6
BREE 697 (4) M.Sc. Thesis 7
BREE 698 (4) M.Sc. Thesis 8

Required Courses (5 credits)
BREE 651 (1) Departmental Seminar M.Sc. 1
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BREE 652</td>
<td>1</td>
<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.

**14.11.3.6 Master of Science (M.Sc.); Bioresource Engineering (Thesis) — Environment (46 credits)**

**Thesis Courses (32 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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**Required Courses (11 credits)**

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<td>Departmental Seminar M.Sc. 1</td>
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<tr>
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<td>Departmental Seminar M.Sc. 2</td>
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<tr>
<td>BREE 699</td>
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<tr>
<td>ENVR 610</td>
<td>3</td>
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**Complementary Courses (3 credits)**

Chosen from the following:

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<td>ENVR 544</td>
<td>3</td>
<td>Environmental Measurement and Modelling</td>
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<td>ENVR 620</td>
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<td>Environment and Health of Species</td>
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<td>3</td>
<td>Sustainable Landscapes</td>
</tr>
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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 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

**14.11.3.7 Master of Science (M.Sc.); Bioresource Engineering (Thesis) — Neotropical Environment (46 credits)**

**Thesis (32 credits)**

<table>
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<th>Description</th>
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<tbody>
<tr>
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### Required Courses (11 credits)

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<th>Course Title</th>
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<tr>
<td>BIOL 640</td>
<td>(3)</td>
<td>Tropical Biology and Conservation</td>
</tr>
<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>BREE 699</td>
<td>(3)</td>
<td>Scientific Publication</td>
</tr>
<tr>
<td>ENVR 610</td>
<td>(3)</td>
<td>Foundations of Environmental Policy</td>
</tr>
</tbody>
</table>

Note: Participation in the MSE-Panama Symposium presentation in Montreal is required.

### Elective Course (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.

### Research Project (6 credits)

BREE 631 (6 credits) Integrated Water Resources Management Project

### Required Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 503</td>
<td>(3)</td>
<td>Water: Society, Law and Policy</td>
</tr>
<tr>
<td>BREE 510</td>
<td>(3)</td>
<td>Watershed Systems Management</td>
</tr>
<tr>
<td>BREE 630</td>
<td>(13)</td>
<td>Integrated Water Resources Management Internship</td>
</tr>
<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>BREE 655</td>
<td>(3)</td>
<td>Integrated Water Resources Management Research Visits</td>
</tr>
<tr>
<td>PARA 515</td>
<td>(3)</td>
<td>Water, Health and Sanitation</td>
</tr>
</tbody>
</table>

### Elective Courses (12 credits)

12 credits, at the 500 level or higher, of any relevant course(s) chosen in consultation with the Program Director.

### Research Project (12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</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 (2 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>
</tbody>
</table>

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.

14.11.3.10 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>Description</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.

14.11.3.11 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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 671*</td>
<td>6</td>
<td>Project 1</td>
</tr>
</tbody>
</table>
BREE 672 (6) Project 2

* BREE 671 may also be taken as part of this requirement.

**Required Courses (9 credits)**

- BREE 533 (3) Water Quality Management
- CHEE 591 (3) Environmental Bioremediation
- 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.

14.11.3.12 Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) — Integrated Food and Bioprocessing (45 credits)

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 600</td>
<td>1</td>
<td>Project/Internship Proposal</td>
</tr>
<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>BREE 699</td>
<td>3</td>
<td>Scientific Publication</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 518</td>
<td>3</td>
<td>Bio-Treatment of Wastes</td>
</tr>
<tr>
<td>BREE 519</td>
<td>3</td>
<td>Advanced Food Engineering</td>
</tr>
<tr>
<td>BREE 520</td>
<td>3</td>
<td>Food, Fibre and Fuel Elements</td>
</tr>
<tr>
<td>BREE 530</td>
<td>3</td>
<td>Fermentation Engineering</td>
</tr>
<tr>
<td>BREE 531</td>
<td>3</td>
<td>Post-Harvest Drying</td>
</tr>
<tr>
<td>BREE 532</td>
<td>3</td>
<td>Post-Harvest Storage</td>
</tr>
<tr>
<td>BREE 535</td>
<td>3</td>
<td>Food Safety Engineering</td>
</tr>
<tr>
<td>BREE 603</td>
<td>3</td>
<td>Advanced Properties: Food and Plant Materials</td>
</tr>
</tbody>
</table>

Minimum of 12 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 601</td>
<td>6</td>
<td>Integrated Food and Bioprocessing Internship 1</td>
</tr>
<tr>
<td>BREE 602</td>
<td>6</td>
<td>Integrated Food and Bioprocessing Internship 2</td>
</tr>
<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>

Minimum of 3 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 630</td>
<td>3</td>
<td>Food and Agricultural Policy</td>
</tr>
<tr>
<td>AGEC 633</td>
<td>3</td>
<td>Environmental and Natural Resource Economics</td>
</tr>
<tr>
<td>AGEC 642</td>
<td>3</td>
<td>Economics of Agricultural Development</td>
</tr>
<tr>
<td>AGRI 510</td>
<td>3</td>
<td>Professional Practice</td>
</tr>
</tbody>
</table>

Minimum of 3 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTEC 502</td>
<td>3</td>
<td>Biotechnology Ethics and Society</td>
</tr>
<tr>
<td>FDSC 519</td>
<td>3</td>
<td>Advanced Food Processing</td>
</tr>
</tbody>
</table>
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.

14.11.3.13 Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) — Neotropical Environment (45 credits)

Research Project (12 credits)
BREE 671 (6)  Project 1
BREE 672 (6)  Project 2

Required Courses (8 credits)
BIOL 640 (3)  Tropical Biology and Conservation
BREE 651 (1)  Departmental Seminar M.Sc. 1
BREE 652 (1)  Departmental Seminar M.Sc. 2
ENVR 610 (3)  Foundations of Environmental Policy

Note: Participation in the MSE-Panama Symposium presentation in Montreal is required.

Complementary Courses (25 credits)
3 credits (one elective course), 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.

22 additional credits of 500-, 600-, or 700-level courses chosen in consultation with the academic adviser.

14.11.3.14 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
BREE 701 (0)  Ph.D. Comprehensive Examination
BREE 751 (0)  Departmental Seminar Ph.D. 1
BREE 752 (0)  Departmental Seminar Ph.D. 2
BREE 753 (0)  Departmental Seminar Ph.D. 3
BREE 754 (0)  Departmental Seminar Ph.D. 4

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.

14.11.3.15 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</th>
<th>Code</th>
<th>Title</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>
<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</th>
<th>Code</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.

14.11.3.16 Doctor of Philosophy (Ph.D.); Bioresource Engineering — 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>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 640</td>
<td>(3)</td>
<td>Tropical Biology and Conservation</td>
</tr>
<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>
</tbody>
</table>
Elective Course (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.

14.11.3.17 Graduate Certificate in Bioresource Engineering — Integrated Water Resources Management (15 credits)

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 503</td>
<td>3</td>
<td>Water: Society, Law and Policy</td>
</tr>
<tr>
<td>NRSC 514</td>
<td>3</td>
<td>Freshwater Ecosystems</td>
</tr>
<tr>
<td>PARA 515</td>
<td>3</td>
<td>Water, Health and Sanitation</td>
</tr>
</tbody>
</table>

Complementary Courses (6 credits)

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BREE 533</td>
<td>3</td>
<td>Water Quality Management</td>
</tr>
<tr>
<td>CIVE 550</td>
<td>3</td>
<td>Water Resources Management</td>
</tr>
</tbody>
</table>

and 3 credits from the list available in the Department chosen in consultation with the Academic Adviser.

14.11.4 Biotechnology

14.11.4.1 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

14.11.4.2 About Biotechnology


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 14.11.4.5: 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.

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.

### 14.11.4.3 Biotechnology Admission Requirements and Application Procedures

#### 14.11.4.3.1 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 of 3.0/4.0 or 3.2/4.0 GPA in the last two full-time years of university study for the Graduate Certificate, and a minimum of 3.2/4.0 CGPA for the M.Sc.(A.), as well as prerequisites or equivalents. Prerequisites or 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 must secure funding from governmental agencies or 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](http://www.mcgill.ca/biotechgradprog/admissions/tuition).

#### 14.11.4.3.2 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 [section 5.3: Application Procedures](#) for detailed application procedures.

#### 14.11.4.3.2.1 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 is not required, but it is highly recommended.
- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Biotechnology website at [www.mcgill.ca/biotechgradprog/admissions](http://www.mcgill.ca/biotechgradprog/admissions) for full details of the admission process.

#### 14.11.4.3.3 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<tbody>
<tr>
<td>Fall: May 31</td>
<td>Fall: March 15</td>
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<tr>
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<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

#### 14.11.4.4 Biotechnology Faculty

Biotechnology programs are offered through the Institute of Parasitology. For a complete faculty listing, please refer to [section 14.11.8.4: Parasitology Faculty](#).

#### 14.11.4.5 Master of Science, Applied (M.Sc.A.); Biotechnology (Non-Thesis) (45 credits)

**Research Project (16 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BTEC 622</td>
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### Required Courses (17 credits)

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<td>Selected Topics in Biotechnology</td>
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<tr>
<td>BTEC 501</td>
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<td>Bioinformatics</td>
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<tr>
<td>BTEC 619</td>
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</tr>
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<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 (12 credits)

- 3 credits in Ethics at the 500 level or higher, selected in consultation with the academic adviser.
- 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.

### 14.11.4.6 Graduate Certificate in Biotechnology (16 credits)

#### Required Courses (10 credits)

<table>
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<tr>
<th>Course</th>
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<tr>
<td>BTEC 620</td>
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<td>Biotechnology Laboratory 1</td>
</tr>
<tr>
<td>BTEC 621</td>
<td>3</td>
<td>Biotechnology Management</td>
</tr>
</tbody>
</table>

#### Complimentary Courses (6 credits)

Two courses chosen from the following:

- **General Topics**
  - ANSC 622 | 3 | Selected Topics in Molecular Biology
  - BINF 511 | 3 | Bioinformatics for Genomics
  - BIOL 524 | 3 | Topics in Molecular Biology
  - BIOL 568 | 3 | Topics on the Human Genome
  - BTEC 501 | 3 | Bioinformatics
  - BTEC 502 | 3 | Biotechnology Ethics and Society
  - BTEC 535 | 3 | Functional Genomics in Model Organisms
  - BTEC 555 | 3 | Structural Bioinformatics
  - BTEC 691 | 3 | Biotechnology Practicum
  - EXMD 511 | 3 | Joint Venturing with Industry
  - EXMD 602 | 3 | Techniques in Molecular Genetics

- **Health**
  - EXMD 610 | 3 | Molecular Methods in Medical Research
  - PARA 635 | 3 | Cell Biology and Infection
  - PHGY 518 | 3 | Artificial Cells

- **Environment and Food**
  - BREE 530 | 3 | Fermentation Engineering
**14.11.5 Dietetics and Human Nutrition**

### 14.11.5.1 Location

School of Dietetics and Human Nutrition  
Macdonald-Stewart Building  
McGill University, Macdonald Campus  
21,111 Lakeshore Road  
Saine-Anne-de-Bellevue QC H9X 3V9  
Canada  

Telephone: 514-398-7838  
Email: gradstudies.macdonald@mcgill.ca  
Website: www.mcgill.ca/dietetics

### 14.11.5.2 About Dietetics and Human Nutrition

In the School of Dietetics and Human Nutrition, cutting-edge nutrition research is conducted by its 10 tenure-track professors and four 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: epigenetics; proteomics; metabolomics; embryonic and fetal origins of health and disease; the development of improved recommendations and policies for optimizing health in at-risk populations including Aboriginal populations, mothers and children, and the elderly; and the development of novel nutritional and/or nutraceutical approaches 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 Institute for Global Food Security, the Mary Emily Clinical Nutrition Research unit, and the MUHC Teaching Hospitals. Students can conduct research or participate in clinical rotations with the BITS – Barbados, IDRC – Ghana and field sites in Asia, Africa, and Latin America.

#### section 14.11.5.5: 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 14 credits in advanced nutrition coursework plus 31 credits 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 14.11.5.7: Master of Science, Applied (M.Sc.A.); Human Nutrition (Non-Thesis) — Practicum (45 credits) and section 14.11.5.8: Master of Science, Applied (M.Sc.A.); Human Nutrition (Non-Thesis) — Project (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 29 credits in advanced Nutrition courses plus 16 credits 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 14.11.5.6: 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 (46 credits) and 3 semesters of *Stage* (37 credits), which include a practice-based graduate project.

#### section 14.11.5.9: 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 14.11.5.10: Graduate Diploma in Registered Dietitian Credentialing (30 credits)

This program is currently not offered.

In the School of Dietetics and Human Nutrition at McGill, students pursuing a graduate degree in nutrition have the opportunity to apply to our Graduate Diploma in R.D. Credentialing, upon completion of the M.Sc. or Ph.D. program and upon completion of the undergraduate courses required by l’Ordre professionnel des diététistes du Québec (OPDQ). This Diploma consists of two semesters of *Stage* (internship) in Clinical Nutrition, Community Nutrition, and Foodservice Systems 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.
14.11.5.3 Dietetics and Human Nutrition Admission Requirements and Application Procedures

14.11.5.3.1 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 at least a 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 at least a 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.

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 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. While the school cannot guarantee financial support, teaching assistantships and other scholarships may be available.

14.11.5.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

14.11.5.3.2.1 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 staff 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 Dietetics and Human Nutrition who are submitting non-Canadian and non-U.S. transcripts.

14.11.5.3.3 Application Deadlines

The application deadlines listed here are set by the School of Dietetics and 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.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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</thead>
<tbody>
<tr>
<td>Fall: April 15</td>
<td>Fall: March 15</td>
<td>Fall: Same as Canadian/International</td>
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<td>Winter: Aug. 31</td>
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<tr>
<td>Summer: Feb. 28</td>
<td>Summer: Jan. 31</td>
<td>Summer: Same as Canadian/International</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.

14.11.5.4 Dietetics and Human Nutrition Faculty

**Director**

Linda J. Wykes

**Professor Emerita**

Harriet V. Kuhnlein; B.S.(Penn. St.), M.S.(Ore. St.), Ph.D.(Calif.), R.D. (joint appt. with Faculty of Medicine)
Professors

Luis B. Agellon; B.Sc., Ph.D.(McM.) (Canada Research Chair)
Tim A. Johns; B.Sc.(McM.), M.Sc.(Br. Col.), Ph.D.(Mich.) (joint appt. with Plant Science)
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)
Katherine Gray-Donald; B.Sc., Ph.D.(McG.), R.D. (joint appt. with Epidemiology and Biostatistics, Faculty of Medicine)
Kristine G. Koski; B.S., M.S.(wash.), Ph.D.(Calif.), R.D.
Stan Kubow; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)
Grace S. Marquis; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(Cornell) (Canada Research Chair)
Hugo Melgar-Quispe; M.Sc.(SPHM), M.D.(USAC)
Louise Thibault; B.Sc., M.Sc., Ph.D.(Laval), Dt. P.
Hope Weiler; B.A.Sc.(Guelph), Ph.D.(McM.), R.D. (Canada Research Chair)

Faculty Lecturers

Mary Hendrickson-Nelson; B.A.(St. Benedict), B.Sc.(Minn.), M.Sc.(Colo. St.), Dt. P.
Sandy Phillips; B.Sc., M.Sc.(A.)McG.), Dt. P. (University Coordinator, Professional Practice (Stage) in Dietetics)
Hughes Plourde; B.Sc.(McG.), M.Sc., Ph.D.(Montr.), Dt. P.
Maureen Rose; B.Sc., M.Ed., Ph.D.(McG.), Dt. P.

Associate Members

Anaesthesia: Franco Carli, Ralph Lattermann, Thomas Schricker
Food Science & Agricultural Chemistry: Selim Kermasha
Kinesiology: Ross Andersen
Medicine: Louis Beaumier, Stéphanie Chevalier, L. John Hoffer, Larry Lands, Errol B. Marliss, José Morais, Celia Rodd, Jean-François Yale
Parasitology: Marilyn E. Scott

Adjunct Professors

Kevin A. Cockell (Health Canada)
Grace Egeland; B.Sc.(Luther College), Ph.D.(Pitt.)

14.11.5.5 Master of Science (M.Sc.); Human Nutrition (Thesis) (45 credits)

Thesis Courses (31 credits)

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<td>(6)</td>
<td>Human Nutrition M.Sc. Thesis 2</td>
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<td>NUTR 682</td>
<td>(9)</td>
<td>Human Nutrition M.Sc. Thesis 3</td>
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<td>NUTR 683</td>
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Required Courses (2 credits)

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<tr>
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<td>(1)</td>
<td>Human Nutrition Seminar 1</td>
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<tr>
<td>NUTR 696</td>
<td>(1)</td>
<td>Human Nutrition Seminar 2</td>
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Complementary Courses (12 credits)
3 credits in graduate-level statistics
3 credits in graduate-level research methods
3-6 credits in graduate-level courses (chosen in consultation with supervisory committee)

0-3 credits:
NUTR 513 (3) Credentialing in Dietetics

14.11.5.6 Master of Science, Applied (M.Sc.A.); Human Nutrition (Non-Thesis) — Dietetics Credentialing (83 credits)

Required Courses (74 credits)
- EDPC 501 (3) Helping Relationships
- NUTR 501 (3) Nutrition in Developing Countries
- NUTR 503 (3) Bioenergetics and the Lifespan
- NUTR 511 (3) Nutrition and Behaviour
- NUTR 513 (3) Credentialing in Dietetics
- NUTR 515 (1) Dietetics French Examination
- NUTR 545 (5) Clinical Nutrition 2
- NUTR 602 (3) Nutritional - Status Assessment
- NUTR 606 (3) Human Nutrition Research Methods
- 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
- NUTR 626 (3) Professional Dietetics Writing
- NUTR 627 (1) Professional Dietetics Presentation
- NUTR 628 (1) Dietetics Comprehensive Examination
- NUTR 629 (6) Professional Dietetics Project
- NUTR 651 (3) M.Sc. (Applied) Nutrition 1
- NUTR 660 (1) M.Sc. (Applied) Nutrition 2
- NUTR 695 (1) Human Nutrition Seminar 1
- NUTR 696 (1) Human Nutrition Seminar 2

Complementary Courses (9 credits)
3 credits of Social Science courses, at the 500 level or higher, to be chosen in consultation with the Adviser.

3 credits from the following:
- ANSC 551 (3) Carbohydrate and Lipid Metabolism
- ANSC 560 (3) Biology of Lactation
- FDSC 545 (3) Advances in Food Microbiology
- NUTR 502 (3) Independent Study 2
- NUTR 512 (3) Herbs, Foods and Phytochemicals
- NUTR 551 (3) Analysis of Nutrition Data
- NUTR 608 (3) Special Topics 1
- NUTR 610 (3) Maternal and Child Nutrition
3 credits from the following:

AEMA 610 (3) Statistical Methods 2
PSYC 650 (3) Advanced Statistics 1

14.11.5.7 Master of Science, Applied (M.Sc.A.); Human Nutrition (Non-Thesis) — Practicum (45 credits)

Practicum (12 credits)

NUTR 656 (3) M.Sc. (Applied) Practicum 1
NUTR 657 (3) M.Sc. (Applied) Practicum 2
NUTR 658 (3) M.Sc. (Applied) Practicum 3
NUTR 659 (3) M.Sc. (Applied) Practicum 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 Seminar 1
NUTR 696 (1) Human Nutrition Seminar 2

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.

14.11.5.8 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 Seminar 1
NUTR 696 (1) Human Nutrition Seminar 2

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.

**14.11.5.9 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<td>NUTR 797</td>
<td>(1)</td>
<td>Human Nutrition Seminar 3</td>
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<td>NUTR 798</td>
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**14.11.5.10 Graduate Diploma in Registered Dietitian Credentialing (30 credits)**

**This program is currently not offered.**

The Graduate Diploma is open to students who have completed a graduate degree with the School of Dietetics and Human Nutrition including NUTR 513 Credentialing in Dietetics.

**Required Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course</th>
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<td>NUTR 613</td>
<td>(14)</td>
<td>Graduate Professional Practice 3 Clinical Nutrition</td>
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<tr>
<td>NUTR 614</td>
<td>(8)</td>
<td>Graduate Professional Practice 4 Community Nutrition</td>
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</table>

**14.11.6 Food Science and Agricultural Chemistry**

**14.11.6.1 Location**

Department of Food Science and Agricultural Chemistry
Macdonald-Stewart Building, Room MS1-034
Macdonald Campus of McGill University
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/foodscience

**14.11.6.2 About Food Science and Agricultural Chemistry**

The Department of Food Science and Agricultural Chemistry offers both M.Sc. (thesis and non-thesis) and Ph.D. programs. These programs provide training in evolving interdisciplinary areas of food quality, food safety, food chemistry, food biotechnology, functional ingredients, applied infrared spectroscopy, food processing, thermal generation of aromas and toxicants, marine biochemistry, and food toxicology. 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 14.11.6.6: 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. Entry is possible from other disciplines; however, students will be expected to complete a Qualifying term or year to pick up relevant courses to orient themselves to food science. Students are required to complete a total of 45 credits (10 graduate-level courses, a seminar course, and a research project). Subsequent career paths include work within the food industry and government agencies.

section 14.11.6.7: Master of Science (M.Sc.); Food Science and Agricultural Chemistry — Food Safety (Non-Thesis) (45 credits)

This 45-credit program is offered to candidates who seek further specialization in the area of food safety but do not wish to pursue independent research. These credits are obtained through a combination of graduate-level courses. The residence time for the M.Sc. (Non-Thesis) degree is three academic terms.

section 14.11.6.5: 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). The M.Sc. degree consists of 45 graduate credits; these credits are obtained through a combination of graduate courses (15 credits) and a research thesis (30 credits). 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 ensure admission to the Food Science graduate program. Subsequent career paths include work within the food industry, government agencies, and in research.

section 14.11.6.8: 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.

14.11.6.3 Food Science and Agricultural Chemistry Admission Requirements and Application Procedures

14.11.6.3.1 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 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 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 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. While the Department cannot guarantee financial support, students can apply for teaching assistantships and other scholarships.

14.11.6.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

14.11.6.3.2.1 Additional Requirements

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

- Final acceptance to the M.Sc. and Ph.D. programs depends on a staff 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 is not required, but it is highly recommended.

14.11.6.3.3 Application Deadlines

The application deadlines listed here 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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14.11.6.4 Food Science and Agricultural Chemistry Faculty

Chair
V. Yaylayan

Chair of Graduate Program
S. Karboune

Professors
I. Alli; B.Sc.(Guy.), M.Sc., Ph.D.(McG.)
H.S. Ramaswamy; B.Sc.(B'lore), M.Sc., Ph.D.(Br. Col.)
B.K. Simpson; B.Sc.(Ghana), Ph.D.(Nfld.)
V.A. Yaylayan; B.Sc.(Beirut), M.Sc., Ph.D.(Alta.)

Associate Professors
A.A. Ismail; B.Sc., Ph.D.(McG.)
S. Kermasha; B.Sc.(Baghdad), C.E.S, D.E.A, D.Sc.(Nancy)

Assistant Professors
M. Chénier; B.Sc.(Laval), M.Sc.(IAF), Ph.D.(McG.)
S. Karboune; B.Sc., M.Sc.(Rabat), D.E.A., Ph.D.(Marseille)

Professor Post-Retirement
F.R. van de Voort; B.Sc., M.Sc., Ph.D.(Br. Col.)

Emeritus Professor
W.D. Marshall; B.Sc.(New Br.), Ph.D.(McM.)

14.11.6.5 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.
14.11.6.6 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.

14.11.6.7 Master of Science (M.Sc.); Food Science and 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.

**14.11.6.8 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
14.11.7 Natural Resource Sciences

14.11.7.1 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

14.11.7.2 About Natural Resource Sciences

The Department of Natural Resource Sciences offers programs leading to M.Sc. and Ph.D. degrees in Entomology (includes Environment and Neotropical Environment options), Microbiology (includes Bioinformatics and Environment options), Renewable Resources (includes Forest Science, Micrometeorology, Soil Science, and Wildlife Biology with Environment and Neotropical Environment options available) and an M.Sc. degree in Agricultural Economics. It is also possible for students to pursue doctoral studies in Agricultural/Environmental Economics or with a Ph.D. in Renewable Resources. An interdisciplinary option in Bioinformatics for doctoral students 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.

Master of Science Degrees

section 14.11.7.5: 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 14.11.7.6: Master of Science (M.Sc.); Entomology (Thesis) (45 credits)

Please contact the Department for more information about this program.

section 14.11.7.7: Master of Science (M.Sc.); Entomology (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 14.11.7.8: Master of Science (M.Sc.); Entomology (Thesis) — Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 14.11.7.9: Master of Science (M.Sc.); Microbiology (Thesis) (45 credits)

Please contact the Department for more information about this program.

section 14.11.7.10: Master of Science (M.Sc.); Microbiology (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 14.11.7.11: Master of Science (M.Sc.); Renewable Resources (Thesis) (45 credits)

(Including Micrometeorology, Forest Science, Soil Science, and Wildlife Biology as areas of research)

section 14.11.7.12: Master of Science (M.Sc.); Renewable Resources (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 14.11.7.13: Master of Science (M.Sc.); Renewable Resources (Thesis) — Neotropical Environment (48 credits)

Please contact the Department for more information about this program.
### 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)

- **Doctor of Philosophy (Ph.D.); Entomology**
  
  Please contact the Department for more information about this program.

- **Doctor of Philosophy (Ph.D.); Entomology — Environment**
  
  Please contact the Department for more information about this program.

- **Doctor of Philosophy (Ph.D.); Entomology — Neotropical Environment**
  
  Please contact the Department for more information about this program.

- **Doctor of Philosophy (Ph.D.); Microbiology**
  
  Please contact the Department for more information about this program.

- **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**
  
  Please contact the Department for more information about this program.

- **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

#### 14.11.7.3.1 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 equivalent cumulative grade point average of 3.0/4.0 (second class – upper division) or 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 an equivalent cumulative grade point average of 3.0/4.0 (second class – upper division) or 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 2014-2015 academic year; the program is currently under review.

**Ph.D. Thesis (Entomology, Microbiology, Renewable Resources)**

Candidates, normally, are required to hold an M.Sc. degree and will be judged primarily on their ability to conduct an original and independent research 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 Support – 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.

**14.11.7.32 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 section 5.3: Application Procedures for detailed application procedures.

**14.11.7.32.1 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 is not required, but it is highly recommended.

**14.11.7.33 Application Deadlines**

The application deadlines listed here 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](http://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. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

**14.11.7.4 Natural Resource Sciences Faculty**

**Chair**

J.W. Fyles

**Graduate Program Director**

B. Côté

**Program Director - Agricultural Economics**

J.C. Henning

**Emeritus Professors**

D.M. Bird; B.Sc.(Guelph), M.Sc., Ph.D.(McG.); *Wildlife Biology*

E.S. Idziak; B.Sc.(Agr.), M.Sc.(McG.), D.Sc.(Delft); *Microbiology*

A.F. MacKenzie; B.S.A., M.Sc.(Sask.), Ph.D.(Cornell); *Soil Science*

R.A. MacLeod; B.A., M.A.(Br. Col.), Ph.D.(Wisc.), F.R.S.C.; *Microbiology*

P.H. Schuepp; Dipl.Sc.Nat.(Zür.), Ph.D.(Tor.); *Agricultural Physics*

R.K. Stewart; B.Sc.(Agr.), Ph.D.(Glas.); *Entomology*

**Professors**

P. Brown; B.A.(Haver.), M.A., Ph.D.(Col.); *Environmental Policy and Ethics (joint appt. with Geography and McGill School of Environment)*

J.W. Fyles; B.Sc., M.Sc.(Vic., BC), Ph.D.(Alta.); *Forest Resources (Tomlinson Chair in Forest Ecology)*

W.H. Hendershot; B.Sc.(Tor.), M.Sc.(McG.), Ph.D.(Br. Col.); *Soil Science*

**Associate Professors**

N. Basu; B.Sc.(Qu.), M.Sc.(Br. Col.), Ph.D.(McG.); *Ecotoxicology (Canada Research Chair) (joint appt. with School of Dietetics and Human Nutrition)*

E. Bennett; B.A.(Oberlin), M.S., Ph.D.(Wisc.); *Ecosystem Ecology (joint appt. with McGill School of Environment)*
Associate Professors

C. Buddle; B.Sc. (Guelph), Ph.D. (Alta.); *Forest Insect Ecology*

J. Cardille; B.Sc. (Carn. Mell), M.Sc. (Georgia Tech.), M.Sc., Ph.D. (Wisc.); *Landscape Ecology (joint appt. with McGill School of Environment)*

B. Côté; B.Sc., Ph.D. (Laval); *Forest Resources*

B.T. Driscoll; B.Sc., Ph.D. (McM.); *Microbiology*

G.B. Dunphy; B.Sc. (New Br.), M.Sc., Ph.D. (Nfld.); *Entomology*

J.C. Henning; B.Sc., Ph.D. (Guelph); *Agricultural Economics*

G. Hickey; B.Sc. (Melb.), Ph.D. (Br. Col.), EMPA (ANZSOC, Monash); *Sustainable Natural Resource Management*

M. Humphries; B.Sc. (Manit.), M.Sc. (Alta.), Ph.D. (McG.); *Wildlife Biology*

D.J. Lewis; B.Sc., M.Sc., Ph.D. (Nfld.); *Entomology*

I.B. Strachan; B.Sc. (Tor.), M.Sc., Ph.D. (Qu.); *Micrometeorology*

P.J. Thomassin; B.Sc. (McG.), M.S., Ph.D. (Hawaii Pac.); *Agricultural and Environmental Economics*

J. Whalen; B.Sc. (Agr.), M.Sc. (McG.), Ph.D. (Ohio St.); *Soil Science*

T.A. Wheeler; B.Sc. (Nfld.), M.Sc., Ph.D. (Guelph); *Entomology*

L.G. Whyte; B.Sc. (Regina), Ph.D. (Wat.); *Microbiology*

Assistant Professors

A. Biswas; B.Sc. (BCKV), M.Sc. (UAS Bangalore), Ph.D. (Sask.); *Soil Physics*

S. Faucher; B.Sc., Ph.D. (Montr.); *Microbiology*

N. Kosoy; B.Sc. (Univ. Simon Bolivar), M.Sc. (Univ. of Kent, Univ. Autonoma de Barcelona), Ph.D. (Univ. Autonoma de Barcelona); *Ecological Economics (joint appt. with McGill School of Environment)*

C. Solomon; B.Sc. (Cornell), Ph.D. (Wisc.); *Wildlife Biology*

Associate Members

C.A. Chapman (*Anthropology*)

L.J. Chapman (*Biology*)

M. Chenier (*Food Science and Agricultural Chemistry*)

D. Green (*Redpath Museum*)

M. Scott (*Institute of Parasitology*)

D. Smith (*Plant Science*)

I. Vaccaro (*Anthropology, McGill School of Environment*)

Adjunct Professors

D. Angers

G. Boivin

K. Fernie

C. Greer

J. Macdonald

J. Nocera

G. Sunahara

**14.11.7.5 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)**
Required Course
(1 credit)

AGEC 690 (1) Seminar

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.

14.11.7.6 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.
14.11.7.7 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.

14.11.7.8 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.
14.11.7.9 Master of Science (M.Sc.); Microbiology (Thesis) (45 credits)

**Thesis Courses (36 credits)**

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<tr>
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<td>M.Sc. Thesis Research 3</td>
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**Required Courses (3 credits)**

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<th>Description</th>
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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 500-, 600-, or 700-level courses; normally one of these will be a course in statistics.

14.11.7.10 Master of Science (M.Sc.); Microbiology (Thesis) — Environment (46 credits)

**Thesis Courses (36 credits)**

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<tr>
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<tr>
<td>NRSC 693</td>
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<td>M.Sc. Thesis Research 3</td>
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**Required Courses (7 credits)**

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<td>NRSC 651</td>
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<td>Graduate Seminar 3</td>
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**Complementary Course (3 credits)**

One of the following courses:

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<td>ENVR 544</td>
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<td>Environmental Measurement and Modelling</td>
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<tr>
<td>ENVR 680</td>
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<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.

14.11.7.11 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>
</tbody>
</table>
M.Sc. Thesis Research 2
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 level or higher recommended by the supervisory committee; one of which must be in quantitative methods/techniques.

**14.11.7.12 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.

**14.11.7.13 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.

14.11.7.14 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 (9) Environmental Assessment Project Paper

Required Internship (15 credits)

NRSC 615 (15) Environmental Assessment Internship

Required Courses (15 credits)

NRSC 610 (3) Advanced Environmental Assessment
NRSC 611 (3) Environmental Assessment Knowledge Base
NRSC 612 (3) Environmental Assessment and Sustainable Development
NRSC 613 (3) Strategic and Sectoral Environmental Assessment
NRSC 614 (3) 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.

14.11.7.15 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 (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

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.

14.11.7.16 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.

14.11.7.17 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

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<td>ENVR 610</td>
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<td>Graduate Seminar 7</td>
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</table>

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.

**14.11.7.18 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

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<thead>
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<th>Course Name</th>
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<tr>
<td>NRSC 751</td>
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<td>NRSC 754</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.

**14.11.7.19 Doctor of Philosophy (Ph.D.); Microbiology — Bioinformatics**

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

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<td>COMP 616D2</td>
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</tr>
<tr>
<td>NRSC 751</td>
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<td>Graduate Seminar 4</td>
</tr>
</tbody>
</table>
Complementary Courses
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

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

14.11.7.20 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.
14.11.7.21 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

<table>
<thead>
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<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tr>
<td>NRSC 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>NRSC 751</td>
<td>(0)</td>
<td>Graduate Seminar 4</td>
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<tr>
<td>NRSC 752</td>
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<td>NRSC 753</td>
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<td>NRSC 754</td>
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<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.

14.11.7.22 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>
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<th>Course Title</th>
</tr>
</thead>
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<td>ENVR 610</td>
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<td>Foundations of Environmental Policy</td>
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<tr>
<td>ENVR 650</td>
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<td>ENVR 652</td>
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<td>Graduate Seminar 7</td>
</tr>
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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 chose 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>
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<td>Global Environmental Politics</td>
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<td>ENVR 680</td>
<td>(3)</td>
<td>Topics in Environment 4</td>
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</table>
or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.7.23 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

- 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 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.

14.11.8 Parasitology

14.11.8.1 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

14.11.8.2 About Parasitology

The Institute of Parasitology teaches and researches the phenomenon of parasitism of humans and livestock. The nutrition/parasitism interface is also examined. Current research involvement includes the biology, biochemistry, bioinformatics, pharmacology, control, ecology, epidemiology, immunology, molecular biology, neurobiology, and population and molecular genetics of parasitic organisms, viruses, and cancer cells. The non-thesis programs in Biotechnology offer a course-based curriculum 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 laboratories. A confocal microscopy suite is available on site. Small and large animal facilities are present on the Macdonald campus. The Institute is affiliated with the McGill Centre for Tropical Diseases at the Montreal General Hospital.

Graduates typically go on to become career research scientists, enter the biotechnology sector in research, management, or sales, or accept government positions.

Parasitology Programs
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.

A research project is undertaken in an area of parasitology under the direction of a supervisor, and a thesis is produced. This option involves additional coursework specializing in bioinformatics, and graduates are highly trained professionals with expertise in bioinformatics.

A research project is undertaken under the direction of a supervisor, and a thesis is produced. This option involves extra coursework in topics relevant to the environment and is suitable for students interested in environmental issues. Graduates find employment in science and/or the environment, such as management or consulting positions in the emerging field of environmental protection, or go on to further graduate studies.

An advanced, original research project is undertaken supervised by faculty staff. Coursework is minimal. Graduates are well suited for teaching positions in academia or research careers in a university or private industry laboratory.

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.

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.

**Parasitology Admission Requirements and Application Procedures**

**14.11.8.3 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 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 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.

**14.11.8.3.2 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 section 5.3: Application Procedures for detailed application procedures.

**14.11.8.3.1 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.

**14.11.8.3.3 Application Deadlines**

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).
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.

**14.11.8.4 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)
Paula Ribeiro; B.Sc., Ph.D.(York)
Reza Salavati; B.A., M.A.(Calif. St.), Ph.D.(Wesl.)

**Assistant Professors**

Jerry Aldridge; B.Sc.(Lenoir-Rhyne), Ph.D.(Wake Forest)
Petra Rohrbach; B.Sc.(McG.), Ph.D.(Heidelberg, Germany)

**Associate Members**

Gregory J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ott.)
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**

John P. Dalton; B.Sc., Ph.D.(Dublin)
Sean Forrester; B.Sc.(Cape Breton), M.Sc.(Lake.), Ph.D.(McG.)

**14.11.8.5 Master of Science (M.Sc.); Parasitology (Thesis) (46 credits)**

**Thesis Courses (32 credits)**

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**Required Courses (14 credits)**

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<td>PARA 635</td>
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<td>Host-Parasite Interactions</td>
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Other course work in related subjects may be required, depending upon the candidate's background and research orientation.

### 14.11.8.6 Master of Science (M.Sc.); Parasitology (Thesis) — Bioinformatics (47 credits)

#### Thesis Courses (24 credits)

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<tr>
<td>PARA 688</td>
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</tr>
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#### Required Courses (17 credits)

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<tr>
<td>PARA 606</td>
<td>2</td>
<td>Parasitology Seminar</td>
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<tr>
<td>PARA 607</td>
<td>2</td>
<td>Parasitology Research Seminar</td>
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<tr>
<td>PARA 635</td>
<td>3</td>
<td>Cell Biology and Infection</td>
</tr>
<tr>
<td>PARA 655</td>
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<td>Host-Parasite Interactions</td>
</tr>
</tbody>
</table>

#### Complementary Courses (6 credits)

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

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's supervisory committee.

### 14.11.8.7 Master of Science (M.Sc.); Parasitology (Thesis) — Environment (46 credits)

#### Thesis Courses (26 credits)

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#### Required Courses (14 credits)

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<thead>
<tr>
<th>Course Code</th>
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</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 (6 credits)**

3 credits from one of the following:
- PARA 635 (3) Cell Biology and Infection
- PARA 655 (3) Host-Parasite Interactions

3 credits from one of 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 graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

Note: Other course work in related subjects may be required, depending upon the candidate's background and research orientation.

### 14.11.8.8 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>
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<th>Title</th>
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</thead>
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<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 700</td>
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<td>Thesis Proposal for Ph.D</td>
</tr>
<tr>
<td>PARA 710</td>
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<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 fulfil PARA 700, the comprehensive component.

Depending upon the candidate's background, other course work may be required.

### 14.11.8.9 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)**
Complementary Courses (6 credits)
6 credits 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.

14.11.8.10 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)

- 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
- PARA 700 (0) Thesis Proposal for Ph.D
- PARA 710 (2) Parasitology Ph.D. Seminar 1
- PARA 711 (2) Parasitology Ph.D. Seminar 2

Complementary Courses (6 credits)

One of the following courses:

- PARA 635 (3) Cell Biology and Infection
- PARA 655 (3) Host-Parasite Interactions

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
Civilization and Environment (3) ENVR 630
Topics in Environment 4 (3) ENVR 680

Or another graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.9 Plant Science

14.11.9.1 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

14.11.9.2 About Plant Science

The Department offers an M.Sc. and 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: the Horticultural Research Centre, the Emile A. Lods Agronomy Research Centre, greenhouses, growth cabinets, the McGill University Herbarium, the Applied Biotechnology laboratory, the CT Scanning laboratory, and a 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 14.11.9.5: 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 14.11.9.6: 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 14.11.9.7: 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 option has an added emphasis on environmental sciences, including additional courses and seminars. The Environment graduate option 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 14.11.9.8: 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 14.11.9.9: 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 14.11.9.10: 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 14.11.9.11: 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 option has an added emphasis on bioinformatics, including additional courses and seminars. 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.

section 14.11.9.12: 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 option has an added emphasis on environmental sciences, including additional courses and seminars. The Environment graduate option 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 14.11.9.13: 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 14.11.9.14: Graduate Certificate in 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) after which graduates may go on to pursue successful careers in the biomedical, biotechnology, and biosciences fields.

14.11.9.3 Plant Science Admission Requirements and Application Procedures

14.11.9.3.1 Admission Requirements

General

The minimum cumulative grade point average (CGPA) is 3.0/4.0 (second class – upper division) or a 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.

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 section 5.3: Application Procedures for detailed application procedures.

14.11.9.3.2.1 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 is not required, but it is highly recommended.

14.11.8.33 Application Deadlines

The application deadlines listed here 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.

<table>
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<th>Canadian</th>
<th>International</th>
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<td>Fall: March 15</td>
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<tr>
<td>Winter</td>
<td>Oct. 15</td>
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<td>Summer</td>
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<td>Summer: N/A</td>
<td>Summer: 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. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

14.11.9.4 Plant Science Faculty

Chair
P. Seguin

Emeritus Professor
D.J. Buszard; B.Sc.(Bath), Ph.D.(Lond.)

Professors
P. Dutilleul; L.Sc., D.Sc.(Louvain)
P.L. Smith; B.Sc., M.Sc.(Acad.), Ph.D.(Guelph)
A.K. Watson; B.Sc.(Agr.), M.Sc.(Br. Col.), Ph.D.(Sask.)

Associate Professors
J. Bede; B.Sc.(Calg.), M.Sc., Ph.D.(Tor.)
S. deBlois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.)
D.J. Donnelly; B.Sc.(Agr.)(McG.), M.Sc.(Br. Col.), Ph.D.(S. Fraser)
S. Jabaji; B.Sc.(Beirut), M.Sc.(Guelph), Ph.D.(Wat.)
A.C. Kushalappa; B.Sc., M.Sc.(B'Lore), Ph.D.(Fior.)
P. Seguin; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Minn.)
M. Stromvik; B.A., M.Sc.(Stockholm), Ph.D.(Ill.)
M. Waterway; B.A.(Grand Rapids), M.S.(Wisc.), Ph.D.(Cornell)

Assistant Professors
J.-B. Charron; B.Sc.(Montr.), M.Sc., Ph.D.(UQAM)
V. Gravel; B.Sc.(Agr.), M.Sc., Ph.D.(Laval)
J. Singh; B.Sc.(Agr.), M.Sc.(Punjab), Ph.D.(Syd.)

Faculty Lecturers
C. Begg; B.Sc.(Agr.)(McG.), M.Sc.(Sask.), Ph.D.(McG.)
S. Lussier; B.Sc.(Agr.)(McG.)
D. Wees; B.Sc.(Agr.), M.Sc.(McG.)

Associate Members
G. Brown (Department of Biology)
T.A. Johns (School of Dietetics and Human Nutrition)
### Adjunct Professors

- A. Bertrand
- S. Jenni
- S. Khanizadeh

#### 14.11.9.5 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>
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</thead>
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<td>PLNT 664</td>
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<td>M.Sc. Thesis 1</td>
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<td>12</td>
<td>M.Sc. Thesis 2</td>
</tr>
<tr>
<td>PLNT 666</td>
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**Required Invitational Seminar**

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PLNT 690</td>
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<td>Research Horizons in Plant Science 1</td>
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**Complementary Courses (6 credits)**

Two graduate-level courses

Additional courses may be required at the discretion of the candidate's supervisory committee.

#### 14.11.9.6 Master of Science (M.Sc.); Plant Science (Thesis) — Bioinformatics (48 credits)

**Thesis Courses (39 credits)**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>PLNT 665</td>
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<td>PLNT 666</td>
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<td>M.Sc. Thesis 3</td>
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**Required Invitational Seminar**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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**Required Courses (3 credits)**

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<td>COMP 616D1</td>
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<td>Bioinformatics Seminar</td>
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<td>COMP 616D2</td>
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<td>Bioinformatics Seminar</td>
</tr>
<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:

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<th>Credits</th>
<th>Description</th>
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</thead>
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<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.

### 14.11.9.7 Master of Science (M.Sc.); Plant Science (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>PLNT 664</td>
<td>12</td>
<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>
<td>15</td>
<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>
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<tbody>
<tr>
<td>PLNT 690</td>
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<td>Research Horizons in Plant Science 1</td>
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**Required Courses (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENVR 610</td>
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<td>Foundations of Environmental Policy</td>
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<tr>
<td>ENVR 650</td>
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<td>Environmental Seminar 1</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 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.

### 14.11.9.8 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLNT 664</td>
<td>12</td>
<td>M.Sc. Thesis 1</td>
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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>
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</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>
**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.

**14.11.9.9 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.

**14.11.9.10 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.

**14.11.9.11 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**

- PLNT 690  (0)  Research Horizons in Plant Science 1

**Required Courses (3 credits)**

* Must be taken within one year of registering.
- COMP 616D1  (1.5)  Bioinformatics Seminar  
- COMP 616D2  (1.5)  Bioinformatics Seminar
### Complementary Courses (6 credits)

Two courses to be chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course 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.

### 14.11.9.12 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 Code</th>
<th>Credit</th>
<th>Course 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 Code</th>
<th>Credit</th>
<th>Course 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</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 other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

14.11.9.13 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 1

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.

14.11.9.14 Graduate Certificate in 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
COMP 616D2 (1.5) Bioinformatics Seminar
COMP 616N1 (1.5) Bioinformatics Seminar
COMP 616N2 (1.5) Bioinformatics Seminar
COMP 618 (3) Bioinformatics: Functional Genomics
GLIS 673 (3) Bioinformatics Resources
HGEN 663 (3) Beyond the Human Genome
15 Faculty of Arts

15.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centric research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

15.2 Graduate and Postdoctoral Studies

15.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td></td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>

15.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

Note: For inquiries regarding specific graduate programs, please contact the appropriate department.
15.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

15.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

15.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

15.5 Program Requirements

15.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

15.5.2 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 14.8.3: Vacation Policy for Graduate Students and Postdocs).

A student who has obtained a master's degree at McGill University or 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 enroll 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 form 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.

15.5.3 **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 and contact the relevant department.

15.5.4 **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/gpsstudents/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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

15.6 **Graduate Admissions and Application Procedures**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

15.7 **Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

15.8 **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.

15.8.1 **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.).

15.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 appropriateness of the work space, travel funds, and expectations and compensation for the 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities ("Green Book"), available at www.mcgill.ca/secretariat/policies/students.

   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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 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 in the Handbook on Student Rights and Responsibilities 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

15.8.3 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
15.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

15.8.5 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 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.

15.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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
15.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

15.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

15.11.1 Anthropology

15.11.1.1 Location

Department of Anthropology
Stephen Leacock Building
855 Sherbrooke Street West, Room 718
Montreal QC H3A 2T7
Canada

Telephone: 514-398-4300
Fax: 514-398-7476
Email: gradprogram.anthropology@mcgill.ca
Website: www.mcgill.ca/anthropology

15.11.1.2 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 15.11.1.5: 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 15.11.1.6: 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 15.11.1.7: 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 15.11.1.8: 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 15.11.1.9: Master of Arts (M.A.); Anthropology (Non-Thesis) (45 credits)**

This program is currently not being offered.

The purpose of the M.A. program is to provide advanced-level training in anthropology and to prepare students for research at the Ph.D. level.

**section 15.11.1.10: 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 15.11.1.11: 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 15.11.1.12: 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.

### 15.11.1.3 Anthropology Admission Requirements and Application Procedures

#### 15.11.1.3.1 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 600 on the paper-based or 100 on the Internet-based test (iBT), with each component score not less than 20, is required.

Application information is available on the Department website: **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 of 3.5 or above 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.

15.11.1.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

15.11.1.3.2.1 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

15.11.1.3.3 Application Deadlines

The application deadlines listed here 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.

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<tr>
<th>Canadian</th>
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<tr>
<td>Summer: 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: The Department Admissions Committee announces its selections by mid-March.

15.11.1.4 Anthropology Faculty

Chair

John Galaty

Professors

Colin A. Chapman; B.Sc., M.A., Ph.D.(Alta.) (joint appt. with McGill School of Environment)

Ronald W. Niezen; B.A.(Br. Col.), M.Phil., Ph.D.(Camb.)

Philip Carl Salzman; A.B.(Antioch), M.A., Ph.D.(Chic.)

Allan Young; B.A.(Penn.), M.A.(Wash.), Ph.D.(Penn.) (joint appt. with Social Studies of Medicine)

Associate Professors

André Costopoulos; B.A.(McG.), M.Sc.(Montr.), Ph.D.(Oulu, Finland)

Nicole Couture; B.A.(Trent), M.A., Ph.D.(Chic.)

John Galaty; B.A.(Trin. Coll., Hartford), 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.(Cant.)

James M. Savelle; B.Sc., M.Sc.(Ott.), M.A.(Ark.), Ph.D.(Alta.)

Colin H. Scott; B.A.(Regina), M.A., Ph.D.(McG.)
Associate Professors

Ismael Vaccaro; B.A.(Barcelona), M.A.(E.H.E.S.S. Paris), M.A., Ph.D.(Wash.) (*joint appt. with McGill School of Environment*)

Assistant Professors

Gwen Bennett; B.A.(N’western), M.A., Ph.D.(Calif.-LA) (*joint appt. with East Asian Studies*)

Katherine Lemons; B.A.(Stan.), M.A., Ph.D.(Calif., Berk.)

Maria Starzmann; Ph.D.(SUNY, Binghamton)

Margaret Lisa Stevenson; B.A.(N. Carolina, Chapel Hill), Ph.D.(Calif., Berk.)

Associate Members

Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)

Tobias Rees; M.A.(Universitat Tubingen), Dip.Neuropharmacology(Inst. Pasteur), Ph.D.(Calif., Berk.)

15.11.1.5 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)**

ANTH 699  (24)  M.A. Thesis

**Required Courses (12 credits)**

ANTH 694  (6)  M.A. Thesis Tutorial 1

ANTH 695  (6)  M.A. Thesis Tutorial 2

**Complementary Courses (12 credits)**

12 credits of courses to be determined by the student’s area of study.

15.11.1.6 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)**

ANTH 694  (6)  M.A. Thesis Tutorial 1

ANTH 695  (6)  M.A. Thesis Tutorial 2

ANTH 699  (24)  M.A. Thesis

**Required Course (3 credits)**

INTD 657  (3)  Development Studies Seminar

**Complementary Courses**

9 credits of courses at the 500, 600, or 700 level to be determined by the student’s area of study.

15.11.1.7 Master of Arts (M.A.); Anthropology (Thesis) — Environment (48 credits)

**Thesis Courses (30 credits)**

ANTH 694  (6)  M.A. Thesis Tutorial 1

ANTH 699  (24)  M.A. Thesis
### Required Courses (6 credits)

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<td>ENVR 650</td>
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<td>Environmental Seminar 1</td>
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</tr>
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### Complementary Courses (12 credits)

3 credits from:

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<tr>
<td>ENVR 544</td>
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<td>Environmental Measurement and Modelling</td>
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<tr>
<td>ENVR 620</td>
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<td>ENVR 622</td>
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<td>ENVR 630</td>
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<td>Civilization and Environment</td>
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9 credits from:

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<tr>
<td>ANTH 555</td>
<td>3</td>
<td>Advanced Topics in Ethnology</td>
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<tr>
<td>ANTH 602</td>
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<td>ANTH 603</td>
<td>3</td>
<td>Theory 2</td>
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<td>ANTH 607D1</td>
<td>3</td>
<td>Proseminar in Archaeology</td>
</tr>
<tr>
<td>ANTH 607D2</td>
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<td>ANTH 702</td>
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<td>ANTH 770</td>
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<td>ANTH 780</td>
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<tr>
<td>ANTH 781</td>
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<td>Reading and Research 2</td>
</tr>
</tbody>
</table>

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

### 15.11.1.8 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>
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<th>Course Name</th>
</tr>
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<tr>
<td>ANTH 694</td>
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</tr>
<tr>
<td>ANTH 695</td>
<td>6</td>
<td>M.A. Thesis Tutorial 2</td>
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<tr>
<td>ANTH 699</td>
<td>24</td>
<td>M.A. Thesis</td>
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</table>

**Required Course (3 credits)**

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<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.
- ANTH 615 (3) Seminar in Medical Anthropology

- 3 credits of coursework at the M.A. level relating to gender/women's studies, which may be taken outside the Department
- OR
- ANTH 615 (3) Seminar in Medical Anthropology

### 15.11.1.9 Master of Arts (M.A.); Anthropology (Non-Thesis) (45 credits)

**This program is currently not offered.**

The Master's degree with research paper is a 45-credit program: five courses (15 credits), a Proseminar (6 credits), and the research paper (24 credits). The student's program of work is developed in consultation with the student's supervisor and the two other members of his or her advisory committee. It consists of: five courses (seminars or tutorials), only one of which is optional, a research paper proposal, and the research paper. They must also attend the Proseminar. The research paper will normally be based on library research, but can involve limited and preferably local fieldwork. The research paper should demonstrate the student's ability to define a problem, place it in a theoretical and factual context, collect and analyze data, and write up a report.

### 15.11.1.10 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>
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<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.

15.11.1.11 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 (9 credits)

Note: To ensure that students understand prior research, they must define three subfields which intersect with the thesis topic. They must register for the three Ph.D. tutorials listed below.

ANTH 700 (0) Ph.D. Preliminary Examination
ANTH 790 (3) Ph.D. Tutorial 1
ANTH 791 (3) Ph.D. Tutorial 2
ANTH 792 (3) Ph.D. Tutorial 3

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.

15.11.1.12 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.

ANTH 700 (0) Ph.D. Preliminary Examination
ANTH 790 (3) Ph.D. Tutorial 1
ANTH 791 (3) Ph.D. Tutorial 2
ANTH 792 (3) Ph.D. Tutorial 3
BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy
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.

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.

Required Courses (48 credits)

If admitted to Ph.D. 1.

ANTH 602 (3) Theory 1
ANTH 605 (3) Culture Area
ANTH 609 (6) Proseminar in Anthropology
ANTH 611 (3) Research Design
ANTH 660 (3) Research Methods
ANTH 665 (3) Quantitative Methods
ANTH 685 (3) Research Tutorial 1
ANTH 686 (3) Research Tutorial 2
ANTH 700 (0) Ph.D. Preliminary Examination
ANTH 702 (3) Advanced Anthropological Theory
ANTH 760 (3) Advanced Anthropological Methods
ANTH 790 (3) Ph.D. Tutorial 1
ANTH 791 (3) Ph.D. Tutorial 2
ANTH 792 (3) Ph.D. Tutorial 3
BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy

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.

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.

15.11.2 Art History

15.11.2.1 Location

Department of Art History and Communication Studies
Arts Building, W-225 (West Wing, top floor)
853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada

Telephone: 514-398-4933
Fax: 514-398-7247
Email: graduate.ahcs@mcgill.ca
Website: www.mcgill.ca/ahcs
15.11.2.2 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; and 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/grad/funding/students-postdocs or email graduate.fellowships@mcgill.ca.

For programs in Art History and Communication Studies, refer to our website: www.mcgill.ca/ahcs.

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 the eCalendar under University Regulations and Resources > Graduate > Regulations > Registration > section 2.3.7: Time Limitation). A typical timeline and further details regarding completing the M.A. may be found at www.mcgill.ca/ahcs/graduate/ahgradprograms/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 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 courses which, when considered in relation to the student’s previous record, will provide a balanced breadth of coverage and specialization.

15.11.2.3 Art History Admission Requirements and Application Procedures

15.11.2.3.1 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 15.11.2.3.2: Application Procedures below.

For international applicants whose first language is not English, please see www.mcgill.ca/gradapplicants/apply/prepare/international/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.

### 15.11.232 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 [section 5.3: 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: [maureen.coote@mcgill.ca](mailto:maureen.coote@mcgill.ca)).

### 15.11.231 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.

### 15.11.233 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter</td>
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<tr>
<td>Summer</td>
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<td>Summer: 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:** There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

### 15.11.2.4 Art History and Communication Studies Faculty

**Chair**

Jenny Burman

**Directors**

Amelia Jones – *Director, Graduate Programs in Art History and Communication Studies*

Mary Hunter – *Director, Undergraduate Programs in Art History*

Roberta G. Lentz – *Director, Undergraduate Programs in Communication Studies*

**Emeritus Professors**

John M. Fossey; B.A.(Birm.), D.U.(Lyon II), F.S.A., R.P.A.

George Szanto; B.A.(Dart.), Ph.D.(Harv.)

**Professors**

Amelia Jones; B.A.(Harv.), M.A.(Penn.), Ph.D.(Calif.)
Professors
Marc Raboy; B.Sc., M.A., Ph.D.(McG.)
Christine Ross; M.A.(C’dia.), Ph.D.(Paris I)
Will Straw; B.A.(Car.), M.A., Ph.D.(McG.)

Associate Professors
Darin Barney; B.A., M.A.(S. Fraser), Ph.D.(Tor.)
Jenny Burman; B.A.(C’dia), M.A., Ph.D.(York)
Cecily Hilsdale; B.F.A.(C’dia), M.A., Ph.D.(Chic.)
Charmaine Nelson; B.F.A., M.A.(C’dia), Ph.D.(Manc.)
Carrie Rentschler; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)
Jonathan Sterne; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)
Angela Vanhaelen; B.A.(W. Ont.), M.A., Ph.D.(Br. Col.)

Assistant Professors
Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)
Chriscinda Henry; B.A.(Colo.), M.A.(Col.), Ph.D.(Chic.)
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.(Arkansas), M.A.(S. Ill.), Ph.D.(Texas-Austin)
Jeffrey Moser; B.A.(Calif., Berk.), M.A(Taiwan), Ph.D.(Harv.)

Adjunct Professors
Cornelius Borck, Johanne Lamoureux, Charles Levin, Bronwen Wilson

15.11.2.5 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)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ARTH 600</td>
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<td>Advanced Professional Seminar</td>
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<td>ARTH 698</td>
<td>(12)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>ARTH 699</td>
<td>(12)</td>
<td>Thesis Research 2</td>
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Complementary Courses (18 credits)
Chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>ARTH 617</td>
<td>(3)</td>
<td>Modern Art</td>
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<td>ARTH 618</td>
<td>(3)</td>
<td>Art History - 1400-1900 1</td>
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<tr>
<td>ARTH 630</td>
<td>(3)</td>
<td>Directed Reading 1</td>
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<tr>
<td>ARTH 645</td>
<td>(3)</td>
<td>Medieval Art and Archaeology</td>
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<tr>
<td>ARTH 646</td>
<td>(3)</td>
<td>Topics: Chinese Visual Culture</td>
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<tr>
<td>ARTH 647</td>
<td>(3)</td>
<td>Topics: Renaissance Art &amp; Architecture 1</td>
</tr>
<tr>
<td>ARTH 648</td>
<td>(3)</td>
<td>Topics: Renaissance Art &amp; Architecture 2</td>
</tr>
</tbody>
</table>
15.11.2.6 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)

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<thead>
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<td>3</td>
</tr>
<tr>
<td>ARTH 731</td>
<td>3</td>
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</table>

Complementary Courses (15 credits)

15 credits at the 500 level or higher to be chosen in consultation with a supervisor.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>COMS 633</td>
<td>3</td>
</tr>
<tr>
<td>WMST 602</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

15.11.2.7 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 600</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 701</td>
<td>0</td>
</tr>
</tbody>
</table>
Complementary Courses (12 credits)

Four courses chosen from the following:

- ARTH 714 (3) Directed Reading 2
- ARTH 715 (3) Research: Modern Architecture - 1750 to Present 1
- ARTH 719 (3) Seminar in Urban Planning and Topography 3
- ARTH 723 (3) Art Criticism 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

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.

15.11.2.8 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)

- ARTH 600 (3) Advanced Professional Seminar
- ARTH 701 (0) Ph.D. Comprehensive Examination
- WMST 601 (3) Feminist Theories and Methods
- WMST 602 (3) Feminist Research Symposium

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.

15.11.3 Classics

See section 15.11.10: History and Classical Studies.
15.11.4 Communication Studies

15.11.4.1 Location

Department of Art History and Communication Studies
Arts Building, W-225 (West Wing, top floor)
853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada

Telephone: 514-398-4933
Fax: 514-398-7247
Email: graduate.ahcs@mcgill.ca
Website: www.mcgill.ca/ahcs

15.11.4.2 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/students-postdocs or email graduate.fellowships@mcgill.ca.

For programs in Art History and Communication Studies, refer to our website: www.mcgill.ca/ahcs.

Master's and Ph.D. Degrees

The master's program requires a three-semester residency, the successful completion of a total of seven courses (21 credits, including the Pro-Seminar course), and a thesis (equivalent to 24 credits). Three years of residence are normally required for the Ph.D. degree (candidates with an M.A. will be admitted at the Ph.D. 2 level of the doctoral program, thereby gaining credit for one year of resident study). The Ph.D. program of study is comprised of five courses (15 credits), the Pro-Seminar (3 credits), a comprehensive examination (0 credits), a dissertation proposal, and a written dissertation with its defense. Ph.D. students who have selected the graduate option in Gender and Women’s Studies are required to take 9 credits (within the total credits that are required for the Ph.D. degree); WMST 601 AND WMST 602 are required, plus one 3-credit complementary Art History course related to gender and women’s studies. All course selections must first be approved by the supervisor/Graduate Program Director.

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 15.11.4.5: 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 15.11.4.6: 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
section 15.11.4.6: Master of Arts (M.A.); Communication Studies (Thesis) — Gender and Women’s Studies (45 credits)

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 15.11.4.7: Master of Arts (M.A.); Communication Studies (Non-Thesis) (45 credits)

Please contact the Department for more information about this non-thesis option.

section 15.11.4.8: 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 15.11.4.9: 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.

15.11.4.3 Communication Studies Admission Requirements and Application Procedures

15.11.4.3.1 Admission Requirements

M.A.

An honours bachelor's degree or equivalent is required of applicants to the M.A. program, with a minimum CGPA of 3.3 out of 4.0, or equivalent, i.e., B+ (75%). In whichever 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.

15.11.4.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Applications will be considered by the deadline of January 15.

Inquiries regarding the program should be addressed to the Graduate Administrative Coordinator, Department of Art History and Communication Studies.

15.11.4.3.2.1 Additional Requirements

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

- Research Proposal – at least 500 words
- Written Work – two examples

15.11.4.3.3 Application Deadlines

The application deadlines listed here 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.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<tbody>
<tr>
<td>Fall: Jan. 15</td>
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<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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: There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.
15.11.4.4 Communication Studies Faculty

See section 15.11.2.4: Art History and Communication Studies Faculty.

15.11.4.5 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>COMS 692</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 1</td>
</tr>
<tr>
<td>COMS 693</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 2</td>
</tr>
<tr>
<td>COMS 694</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 3</td>
</tr>
<tr>
<td>COMS 695</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 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>COMS 616</td>
<td>(3)</td>
<td>Staff-Student Colloquium 1</td>
</tr>
</tbody>
</table>

**Complementary Courses (18 credits)**

18 credits of 500-level or higher COMS courses; two courses outside COMS require approval of the Graduate Program Director.

15.11.4.6 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)**

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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>COMS 692</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 1</td>
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<tr>
<td>COMS 693</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 2</td>
</tr>
<tr>
<td>COMS 694</td>
<td>(6)</td>
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</tr>
<tr>
<td>COMS 695</td>
<td>(6)</td>
<td>M.A. Thesis Preparation 4</td>
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</table>

**Required Courses (6 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>COMS 616</td>
<td>(3)</td>
<td>Staff-Student Colloquium 1</td>
</tr>
<tr>
<td>WMST 601</td>
<td>(3)</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Course Code</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, one 3-credit course on gender/women's issues at the 500, 600, or 700 level (may be in the Department or outside).

15.11.4.7 Master of Arts (M.A.); Communication Studies (Non-Thesis) (45 credits)

**Research Project (12 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 696</td>
<td>(6)</td>
<td>Research Project 1</td>
</tr>
</tbody>
</table>
Required Courses (15 credits)

- COMS 611 (3) History/Theory/Technology
- COMS 613 (3) Gender and Technology
- COMS 616 (3) Staff-Student Colloquium 1
- COMS 617 (3) Staff-Student Colloquium 2
- COMS 619 (3) Material Culture & Communications

Complementary Courses (21 credits)

History of Communication (6 credits)
Two courses chosen from the following:

- COMS 521 (3) Communications in History
- COMS 623 (3) Information Design
- COMS 625 (3) Media Policy
- COMS 629 (3) Canadian Cultural Communications Policy

Community and Gender in Communication (6 credits)
Two courses from the following:

- COMS 631 (3) Textual Analysis of Media
- COMS 633 (3) Feminist Media Studies
- COMS 637 (3) Historiography of Communications
- COMS 639 (3) Interpretive Methods in Media

Media Studies and Technology (6 credits)
Two courses chosen from the following:

- COMS 541 (3) Cultural Industries
- COMS 643 (3) Cultural Studies of News
- COMS 646 (3) Popular Media
- COMS 649 (3) Audience Analysis

One additional 500-, 600-, or 700-level COMS course or, with the permission of the Graduate Program Director, a graduate-level course in Anthropology, Architecture, Art History, English, Philosophy, Political Science, or Sociology.

15.11.4.8 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)
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.

15.11.4.9Doctor 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>COMS 616</td>
<td>3</td>
<td>Staff-Student Colloquium 1</td>
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<tr>
<td>COMS 702</td>
<td>0</td>
<td>Comprehensive Examination</td>
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<tr>
<td>COMS 703</td>
<td>0</td>
<td>Dissertation Proposal</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 (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.

15.11.5 East Asian Studies

15.11.5.1 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
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 from anthropology; archaeology; art history; ethnic studies; film and media studies; gender and women’s studies; history and literature; to 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 15.11.5.5: 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 15.11.5.6: 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 Asian language. Graduates of our program are pursuing careers in academia, publishing, government service, the financial industry, media and communications, and other fields.

East Asian Studies Admission Requirements and Application Procedures

15.11.5.3.1 Admission Requirements

General

A minimum standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of 4.0, or a CGPA of 3.2/4.0 for the last two full-time academic years.

TOEFL, GRE, and IELTS (if applicable).

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 577 (paper based test) or an overall score of 86 (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.

15.11.5.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

The application deadline for the September 2015 term is January 9, 2015.

15.11.5.3.2.1 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.
- GRE – required for applicants who have not studied at a Canadian university
15.11.5.3 Application Deadlines

The application deadlines listed here 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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<td>Winter: N/A</td>
<td>Winter: N/A</td>
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</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.5.4 East Asian Studies Faculty

**Chair**

TBA

**Graduate Program Director**

TBA

**Professors**

Kenneth Dean; B.A.(Brown), M.A., Ph.D.(Stan.)
Grace S. Fong; B.A., M.A.(Tor.), Ph.D.(Br. Col.)
Thomas LaMarre; B.A.(G'town), M.A., Ph.D.(Chic.), D.Sc.(Aix-Marseille II)
Robin D.S. Yates; B.A., M.A.(Oxf.), M.A.(Calif.), Ph.D.(Harv.) (*joint appt. with History*)

**Associate Professor**

Adrienne Hurley; B.A.(Col.), M.A.(Mich.), Ph.D.(Calif.)

**Assistant Professors**

Gwen Bennett; B.A.(N'western), M.A., Ph.D.(Calif.-LA) (*joint appt. with Anthropology*)
Michelle Cho; B.A.(N'western), M.A., Ph.D.(Calif., Irvine)
Yuriko Furuhata; B.A.(Int'l. Christian), M.A.(N. Mexico), Ph.D.(Brown)
Jeffrey Moser; B.A.(Calif., Berk.), M.A.(Taiwan), Ph.D.(Harv.) (*joint appt. with Art History and Communication Studies*)
Gavin Walker; B.A., M.A.(Penn.), Ph.D.(Cornell) (*joint appt. with History*)

**Faculty Lecturers**

Jennie Chang, Myung Hee Kim, Yasuko Senoo, Miwako Uesaka, Bill Wang

**Associate Members**

Lara Braitstein (*Religious Studies*)
Christopher Green (*Economics*)
G. Victor Hori (*Religious Studies*)
Sandra Teresa Hyde (*Anthropology*)
Erik Kuhonta (*Political Science*)
John Kurien (*Economics*)
Catherine La (*Political Science*)
Lorenz Lüthi (*History*)
Johanna Ransmeier (*History*)
Junko Shimoyama (*Linguistics*)
Associate Members

Sarah Turner (Geography)
Juan Wang (Political Science)

15.11.5.5 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.

15.11.5.6 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.

15.11.6 Economics

15.11.6.1 Location

Department of Economics
Stephen Leacock Building, Room 443
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada

Telephone: 514-398-3030
Fax: 514-398-4938
Email: graduate.economics@mcgill.ca
Website: www.mcgill.ca/economics
15.11.6.2 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 a holder 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 15.11.6.5: Master of Arts (M.A.); Economics (Thesis) (48 credits)

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 15.11.6.6: 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 across the social sciences, the Department offers the Social Statistics Option.

section 15.11.6.7: 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 15.11.6.8: 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 15.11.6.9: Master of Arts (M.A.); Economics (Non-Thesis) — Social Statistics (45 credits)

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 15.11.6.10: 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 for supplementary information, which may be important to their choice of program.

15.11.6.3 Economics Admission Requirements and Application Procedures

15.11.6.3.1 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 (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. The Department of Economics’ code is 1801. For more information about the GRE, please visit their website.

15.11.6.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Information can be accessed on the Economics Department website at www.mcgill.ca/economics.

15.11.6.3.3 Additional Requirements

- GRE – mandatory if your education was interrupted or you do not have a degree in Economics from a Canadian university
- Personal Statement

15.11.6.3.4 Application Deadlines

The application deadlines listed here 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.

<table>
<thead>
<tr>
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<td>Summer: N/A</td>
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<td>Summer: 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.

15.11.6.4 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
Robert D. Cairns; B.Sc.(Tor.), Ph.D.(MIT)
Russell Davidson; B.Sc., Ph.D.(Glas.), Ph.D.(Br. Col.) (Canada Research Chair)
Jean-Marie Dufour; B.Sc.(McG.), M.Sc.(Montr.), M.A.(C'dia), M.A., Ph.D.(Chic.) (William Dow Chair in Economics)
John W. Galbraith; B.A.(Qu.), M.Phil., D.Phil.(Oxf.) (James McGill Professor)
Christopher Green; M.A.(Conn.), Ph.D.(Wisc.)
Jagdish Handa; B.Sc.(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.(Univ. 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.(Pontificia Comillas), M.A., Ph.D.(Wash.)
Hassan Benchechkroun; Diplôme d'ingénieur d'état(École Mohamedia des ingénieurs, Morocco), Ph.D.(Laval)
Matthieu Chemin; M.Sc.(École Centrale Paris), M.Sc., Ph.D.(LSE)
Associate Professors
Jim Engle-Warnick; B.S.(Akron), M.B.A.(Carn. Mell), Ph.D.(Pitt.) (*William Dawson Scholar*)
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.)
Sonia Laszlo; B.A.(Ott.), M.A.(W. Ont.), Ph.D.(Tor.)
Markus Poschke; M.Sc.(Maastricht), M.A.(Institut d'Études Politiques, Paris), M.Res., Ph.D.(European University Inst., Italy)
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
Daniel Barczyk; B.Com., M.A.(Tor.), Ph.D.(NYU)
Saraswata Chaudhuri; B.Sc.(Presidency Univ., Kolkata), M.S.(Indian Statistical Inst.), Ph.D.(Wash.)
Rohan Dutta; B.A.(St. Stephen’s College, Delhi Univ.), M.Sc.(Delhi School of Economics), Ph.D.(Wash.)
Jian Li; B.A.(Tsinghua, Beijing), 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
Isabel Galiana
Kenneth MacKenzie
Taweewan Sidhidet

15.11.6.5 Master of Arts (M.A.); Economics (Thesis) (48 credits)

Thesis Courses (30 credits)

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Required Courses (6 credits)

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</tr>
<tr>
<td>ECON 620</td>
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<td>Macroeconomic Theory 1</td>
</tr>
</tbody>
</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.
ECON 662D1 (3) Econometrics
ECON 662D2 (3) Econometrics
ECON 665 (3) Quantitative Methods

A minimum of 6 credits must be taken in the same field.

**15.11.6.6 Master of Arts (M.A.); Economics (Non-Thesis) (45 credits)**

**Research Project (18 credits)**
ECON 650 (3) Research 1
ECON 651 (3) Research 2
ECON 680 (3) M.A. Report 1
ECON 681 (3) M.A. Report 2
ECON 682 (3) M.A. Report 3
ECON 683 (3) M.A. Report 4

**Required Courses (9 credits)**
ECON 610 (3) Microeconomic Theory 1
ECON 620 (3) Macroeconomic Theory 1
ECON 654 (3) Research Methods in Economics

**Complementary Courses (18 credits)**
Must include either:
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.

Additional courses, at the 500, 600, or 700 level, as determined by the student's area of study.

**15.11.6.7 Master of Arts (M.A.); Economics (Non-Thesis) — Development Studies (45 credits)**

**Research Project (18 credits)**
ECON 650 (3) Research 1
ECON 651 (3) Research 2
ECON 680 (3) M.A. Report 1
ECON 681 (3) M.A. Report 2
ECON 682 (3) M.A. Report 3
ECON 683 (3) M.A. Report 4

**Required Courses (15 credits)**
ECON 610 (3) Microeconomic Theory 1
ECON 620 (3) Macroeconomic Theory 1
ECON 634 (3) Economic Development 3
ECON 734 (3) Economic Development 4
Development Studies Seminar (3)  

Complementary Courses (12 credits)  
3 or 6 credits from:  
- ECON 662D1 (3)  
- ECON 662D2 (3)  
- ECON 665 (3)  

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.

15.11.6.8 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)  
- ECON 650 (3)  
- ECON 651 (3)  
- ECON 680 (3)  
- ECON 681 (3)  
- ECON 682 (3)  
- ECON 683 (3)  

Required Courses (12 credits)  
- ECON 610 (3)  
- ECON 620 (3)  
- ECON 742 (3)  
- SOCI 626 (3)  

Complementary Courses (18 credits)  
3-6 credits from the following:  
(either ECON 662D1/D2 or ECON 665)  
- ECON 662D1 (3)  
- ECON 662D2 (3)  
- ECON 665 (3)  

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)  
- ECON 634 (3)  
- ECON 641 (3)  
- ECON 734 (3)
6-9 credits of additional approved complementary courses at the 500 level or higher (two courses in the same/approved filed.)

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<tr>
<th>Course Code</th>
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<td>ECON 525</td>
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<td>ECON 531</td>
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<td>ECON 546</td>
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<td>Game Theory</td>
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<td>ECON 577</td>
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<td>ECON 611</td>
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<td>Microeconomic Theory 2</td>
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<td>ECON 647</td>
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<td>Applied Computational Economics</td>
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<td>ECON 654</td>
<td>(3)</td>
<td>Research Methods in Economics</td>
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<td>ECON 688</td>
<td>(3)</td>
<td>Seminar on Social Statistics</td>
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<td>ECON 706</td>
<td>(3)</td>
<td>Selected Topics</td>
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<td>ECON 710</td>
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<td>Selected Topics in Economics</td>
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<td>ECON 720</td>
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<td>Advanced Game Theory</td>
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<td>ECON 721</td>
<td>(3)</td>
<td>Advanced Monetary Theory</td>
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<td>ECON 724</td>
<td>(3)</td>
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<td>ECON 726</td>
<td>(3)</td>
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<td>ECON 734</td>
<td>(3)</td>
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<td>ECON 737</td>
<td>(3)</td>
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<tr>
<td>ECON 741</td>
<td>(3)</td>
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<td>ECON 761</td>
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<td>ECON 762</td>
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<td>ECON 765</td>
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<td>Models for Financial Economics</td>
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</tbody>
</table>

Courses may not be double counted for both the Population Dynamics complementary course and other complementary courses.

**15.11.6.9 Master of Arts (M.A.): Economics (Non-Thesis) — Social Statistics (45 credits)**

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)**
Research 1(3) ECON 650
Research 2(3) ECON 651
M.A. Report 1(3) ECON 680
M.A. Report 2(3) ECON 681
M.A. Report 3(3) ECON 682
M.A. Report 4(3) ECON 683

**Required Courses (12 credits)**

- ECON 610 (3) Microeconomic Theory 1
- ECON 620 (3) Macroeconomic Theory 1
- ECON 654 (3) Research Methods in Economics
- ECON 688 (3) Seminar on Social Statistics

**Complementary Courses (15 credits)**

Must include either:

- ECON 662D1 (3) Econometrics
- ECON 662D2 (3) Econometrics
- ECON 665 (3) Quantitative Methods

Additional courses at the 500, 600, or 700 level, as determined by the student's area of study.

**15.11.6.10 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**

- ECON 799 (0) Ph.D. Comprehensive Examination

**Required Coursework (20 credits)**

20 credits in Economics beyond the M.A. requirements as described below:

- ECON 662D1 (3) Econometrics
- ECON 662D2 (3) Econometrics
- ECON 771 (1) PhD Research Seminar 2

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.

15.11.7  English

15.11.7.1 Location

Department of English
Arts Building
853 Sherbrooke Street West, Room 155
Montreal QC H3A 0G5
Canada
Telephone: 514-398-6564
Fax: 514-398-8146
Email: maria.vasile@mcgill.ca
Website: www.mcgill.ca/english

15.11.7.2 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.

Students with a B.A. in English, either Honours or major, may apply for the M.A. program. Typically, applicants will have solid training and coverage within their chosen area of theatre, cultural studies, or literature. 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 15.11.7.5: Master of Arts (M.A.); English (Thesis) (48 credits)

In the thesis option, students must successfully complete Bibliography (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 15.11.7.6: Master of Arts (M.A.); English (Non-Thesis) (48 credits)

In the non-thesis option, students must successfully complete Bibliography (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 15.11.7.7: 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
section 15.11.7: Doctor of Philosophy (Ph.D.); English

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.

15.11.7.3 English Admission Requirements and Application Procedures

15.11.7.3.1 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.). 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.

15.11.7.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: 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.

15.11.7.3.3 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

15.11.7.3.3 Application Deadlines

The application deadlines listed here 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.

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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.

15.11.7.4 English Faculty

Chair

A. Hepburn

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.)
### Emeritus Professors
- 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. Trehearn; 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. Folkherth; B.A.(CSU Chico), M.A., Ph.D.(McG.)
- J. Funno; B.A.(Mass.-Amh.), M.A., Ph.D.(Princ.)
- 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)
- T. Ponech; B.A.(McG.), Ph.D.(N’western)
- M. Popescu; B.A., M.A.(Bucharest), M.A.(Windsor), Ph.D.(Penn.)
- 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)

### Assistant Professors
- S. Banerjee; B.A., M.A.(Jad.), M.Phil.(Oxf.), Ph.D.(Syrac.)
- E. MacLaren; B.A.(Alta.), M.A.(W. Ont.), Ph.D.(Tor.)
- A. Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.)
- F. Ritchie; B.A., M.A.(Durh.), Ph.D.(Lond.)
- M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.)
Assistant Professors
K. Zien; B.A.(Col.), Ph.D.(N'western)

15.11.7.5 Master of Arts (M.A.); English (Thesis) (48 credits)

Thesis Courses (27 credits)

 ENGL 695 (3) M.A. Thesis Preparation
 ENGL 699 (24) M.A. Thesis

Required Courses (6 credits)

 ENGL 694 (6) Graduate Research Seminar

Complementary Courses (15 credits)

15 credits of Departmental seminar courses at the 500, 600, or 700 level.

15.11.7.6 Master of Arts (M.A.); English (Non-Thesis) (48 credits)

Research Project (18 credits)

 ENGL 681 (3) M.A. Research Paper Preparation 1
 ENGL 682 (3) M.A. Research Paper Preparation 2
 ENGL 683 (3) M.A. Research Paper Preparation 3
 ENGL 684 (9) M.A. Research Paper

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.

15.11.7.7 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
15.11.8 French Language and Literature

15.11.8.1 Coordonnées
Département de langue et littérature françaises
Pavillon des Arts
853, rue Sherbrooke ouest, bureau 265
Montréal, Québec H3A 0G5

Téléphone : 514-398-6883
Télécopieur : 514-398-8557
Courriel : grad.litfran@mcgill.ca
Site web : http://litterature.mcgill.ca

15.11.8.2 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 (« création littéraire » et « traduction littéraire »). Le DLLF accorde un financement garanti aux meilleurs de ses étudiants, ainsi que des bourses et des assistanats 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.

Maitrise

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 scolarité (M.A. 1), suivis de la rédaction du mémoire. Dans le cas de la maîtrise sans mémoire, la scolarité 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 scolarité (maximum de 6 crédits) peut être suivie dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l’année 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 :

- Scolarité
- Élaboration du projet de thèse et Examen préliminaire
- Thèse
### Scolarité
L'admission se fait normalement au niveau de Ph. D. II. Lorsqu'un candidat, par exception, est admis en Ph. D. I, sa scolarité 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 projet 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'au moins 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.

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#### section 15.11.8.5: 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.

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.

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#### section 15.11.8.6: 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.

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#### section 15.11.8.7: 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.

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#### section 15.11.8.8: 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.

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#### section 15.11.8.9: 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.

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**15.11.8.3 Conditions d'admission au Département de langue et littérature françaises**

**15.11.8.3.1 Conditions d'admission**

Propédeutique
Peuvent être admis en Propédeutique 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 maîtriser une moyenne d'au moins 75 %.
2. Présenter un projet d'étude, 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.

15.11.832 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 :

Pour connaître les procédures détaillées relatives à l'ensemble des demandes d'admission à compter de l'été 2013, consultez section 5.3: Application Procedures.

15.11.8321 Autres exigences

Les éléments et les éclaircissements ci-dessus 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 d'étude
- Curriculum Vitae (pour être admis au programme de Ph. D.)

15.11.833 Dates limites

Le Département de langue et littérature françaises décide des dates limites pour soumettre une demande d'admission. Ces dates sont sujettes à changement, 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>Étudiants canadiens</th>
<th>Étudiants étrangers</th>
<th>Échange/visiteur ou statut particulier</th>
</tr>
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<tr>
<td>Autun : Le 1er juin</td>
<td>Autun : Le 15 mars</td>
<td>Autun : Mêmes dates que celles pour les étudiants canadiens et étrangers</td>
</tr>
<tr>
<td>Hiver : Le 15 octobre</td>
<td>Hiver : Le 15 septembre</td>
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L'admission aux études supérieures est sélective. 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.

15.11.8.4 Professeurs du Département de langue et littérature françaises

Directrice
J. Everett

Directeur des études de 2e et 3e cycles et de la recherche
P. Brissette

Professeurs émérites
M. Angenot; L. Phil. Romane, Dr. Phil. & Lettres(Bruxelles), M.S.R.C. (James McGill Professor)
J.-P. Boucher; M.A.(McG.), Dr. 3e Cy.(Besançon)
G. Di Stefano; Dr. ès L.(Turin), Dipl. Phil., Dr. 3e Cy.(Paris - Sorbonne)
J.-P. Duquette; L. ès L.(Montr.), Dr. 3e Cy.(Paris X - Nanterre)
Professeurs émérites

Y. Lamonde; M.A.(Montr.), Dr. 3e Cy.(Paris X - Nanterre)
F. Ricard; M.A.(McG.), Dr. 3e Cy.(Aix-Marseille), M.S.R.C.
Y. Rivard; M.A.(McG.), Dr. 3e Cy.(Aix-Marseille)

Professeurs

M. Biron; M.A.(Montr.), Dr. Phil. & Lettres(Liège)
I. Daunais; M.A., Ph.D.(McG.) (Chair 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

A. Bernadet; M.A., D.E.A., Dr. 3e Cy.(Paris VIII)
C. Bouchard; M.A.(Montr.), Dr. 3e Cy.(Paris VII - Jussieu)
P. Brissette; M.A.(Montr.), Ph.D.(McG.)
A. Chapdelaine; M.A., Dr. 3e Cy.(Paris VII - Jussieu)
F. Charbonneau; M.A., Ph.D.(Montr.) (William Dawson Scholar)
N. Doiron; M.A., Ph.D.(Montr.)
J. Everett; M.A.(Car.), Ph.D.(McG.)
G. Lane-Mercier; M.A.(Montpellier), Ph.D.(McG.)
C. Leclerc; M.A.(UQAM), Ph.D.(C'dia)

Professeurs adjoints

I. Arseneau; M.A.(W. Ont.), Ph.D.(Montr.)
A. Farah; M.A., Ph.D.(UQAM)

15.11.8.5 Maîtrise 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

15.11.8.6 Maîtrise ès arts (M.A.) ; Langue et littérature françaises (avec mémoire) — études sur les femmes et le genre (48 crédits)

Mémoire (24 crédits)
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.

15.11.8.7 Maîtrise ès 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'année des Études supérieures et postdoctorales, ou dans une autre université.

15.11.8.8 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

<table>
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<tr>
<th>Cours</th>
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<th>Description</th>
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<tr>
<td>FREN 706</td>
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</tr>
<tr>
<td>FREN 707</td>
<td>(0)</td>
<td>Examen préliminaire</td>
</tr>
</tbody>
</table>

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.

15.11.8.9 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)

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<th>Cours</th>
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<td>FREN 711</td>
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<td>Séminaire de doctorat 2</td>
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<td>FREN 790</td>
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<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>

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.

15.11.9 Geography

15.11.9.1 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
15.11.9.2 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 Human Development; Geographic Information Systems and Remote Sensing; Land Surface Processes; Earth System Sciences; and Environmental Management. Geography houses the Hitchfield Geographic Information Centre, maintains the McGill High 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 and the Centre for Climate and Global Change Research. 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.

McGill Sub-Arctic 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.

Centre for Climate and Global Change Research

The Department of Geography, with the McGill Departments of Atmospheric and Oceanic Sciences, Economics, Natural Resource Sciences, and several departments from the Université du Québec à Montréal and Université de Montréal, developed a collaborative research centre that examines climate and global change. There are graduate opportunities through this centre.

For more information contact Professor Nigel Roulet, Director, Centre for Climate and Global Change, McGill University.

Being both a natural and a social science, geography provides a unique opportunity to obtain a broad 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, and policy analysts, 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 (www.geog.mcgill.ca/other/jobsingeog.html) 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 (30 credits), required (3 credits), and complementary (12 credits) 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 think fit, and submit a thesis in an appropriate area of geographical inquiry approved by the adviser.

Master of Arts (M.A.) Programs in Geography

Detailed program requirements for the following M.A. programs are found in the eCalendar under Faculties & Schools > Faculty of Arts > Graduate > Academic Programs > Geography.

section 15.11.9.5: 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 (30 credits), required (3 credits), and complementary (12 credits) 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 15.11.9.6: 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 (30 credits); required International Development and Geography courses (6 credits); and complementary courses (9 credits) 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 15.11.9.7: 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 (24 credits), required (9 credits), and complementary (12 credits) 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 15.11.9.8: 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 (30 credits) topically on gender and women’s studies, required (6 credits), and complementary (9 credits) courses from Geography and Women’s Studies.

section 15.11.9.9: 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 (30 credits); required courses (9 credits) in Geography, Environment, and Biology; and complementary courses (6 credits) 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 15.11.9.10: Master of Arts (M.A.); Geography (Thesis) — Social Statistics (45 credits)

The Social Statistics option focuses on applications of quantitative methods in social science and is composed of the thesis (30 credits); required Geography courses (6 credits); and complementary Geography, Sociology, Economics, and Political Science courses (9 credits). The program complements disciplinary training with research experience applying statistical methods to Statistics Canada data (or equivalent). Students will usually complete normal program course requirements supplemented by further statistical courses (as advised by 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.

Master of Science (M.Sc.) Programs in Geography

Detailed program requirements for the following M.Sc. programs are found in the eCalendar under Faculties & Schools > Faculty of Science > Graduate > Academic Programs > Geography.

section 27.11.6.5: 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 (30 credits), required (3 credits), and complementary (12 credits) 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 27.11.6.6: 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 (24 credits); required Geography and Environment courses (9 credits); and complementary Geography and Environment courses (12 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. 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 27.11.6.7: 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 is 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 (30 credits); required courses (9 credits) in Geography, Environment, and Biology; and complementary courses (6 credits) 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 15.11.9.11: 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.
section 15.11.9.12: Doctor of Philosophy (Ph.D.); Geography — Environment

The Environment 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. 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 15.11.9.13: 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 (9 credits) in Geography and Women’s Studies; and complementary courses (6 credits), one of which must pertain to gender and/or women’s issues.

section 15.11.9.14: 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 (9 credits) in Geography, Environment and Biology; and complementary courses (3 credits) 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.

15.11.9.3 Geography Admission Requirements and Application Procedures
15.11.9.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in section 5: 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 (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. They, 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, which cover a wide range of systematic areas, are listed in documents available from the Department.

15.11.9.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Further departmental application information is listed at www.mcgill.ca/geography/graduate.

15.11.9.3.2.1 Additional Requirements

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

- Research Proposal
- Letters of Reference – three references required for Ph.D. program

15.11.9.3.3 Application Deadlines

The application deadlines listed here 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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<tr>
<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: Jan. 31</td>
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<td>Fall: Jan. 31</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.

15.11.9.4 Geography Faculty

**Chair**
T.R. Moore

**Graduate Program Director**
S. Breau

**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.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) *(James McGill Professor)*
G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

**Associate Professors**
L. Berrang Ford; M.A.(Oxf.), Ph.D.(Guelph)
S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)
G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)
J. Ford; Ph.D.(Guelph)
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. Ramankutty; M.Sc.(Ill.), Ph.D.(Wisc.)
N.A. Ross; M.A.(Qu.), Ph.D.(McM.)
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)*
S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)
J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.)

**Assistant Professors**
K. Manaugh; Ph.D.(McG.)
S. Moser; Ph.D.(Sing.)
N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)
B. Robinson; Ph.D.(Wisc. Mad.)

**Adjunct Professors**
R. Cooke, E. Levac, M. Peros, G. Peterson, O. Sonetag
15.11.9.5 Master of Arts (M.A.); Geography (Thesis) (45 credits)

Thesis Courses (30 credits)
GEOG 698 (6) Thesis Proposal
GEOG 699 (24) Thesis Research

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.

15.11.9.6 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.

15.11.9.7 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:

- 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.

15.11.9.8 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 Geography 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)

- GEOG 698 (6) Thesis Proposal
- GEOG 699 (24) Thesis Research

Required Courses (6 credits)

- GEOG 631 (3) Methods of Geographical Research
- WMST 601 (3) Feminist Theories and Methods

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.

- WMST 602 (3) Feminist Research Symposium

OR one 3-credit graduate course on gender/women's issues.

15.11.9.9 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)

- GEOG 698 (6) Thesis Proposal
- GEOG 699 (24) Thesis Research

Required Courses (9 credits)
Tropical Biology and Conservation (BIOL 640)
Foundations of Environmental Policy (ENVR 610)
Methods of Geographical Research (GEOG 631)

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.

15.11.9.10 Master of Arts (M.A.); Geography (Thesis) — Social Statistics (45 credits)
The Social Statistics Option focuses on applications of quantitative methods in social science and is composed of the thesis (30 credits), required Geography courses (6 credits) and complementary Geography, Sociology, Economics, and Political Science courses (9 credits).

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
GEOG 634 (3) Quantitative Methods in Geography

Complementary Courses (9 credits)
3 credits, one of the following courses:
ECON 688 (3) Seminar on Social Statistics
POLI 688 (3) Seminar on Social Statistics
SOCI 688 (1.5) Social Statistics 1
SOCI 689 (1.5) Social Statistics 2

6 credits, two 3-credit graduate-level courses selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

15.11.9.11 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
GEOG 631 (3) Methods of Geographical Research
GEOG 700 (0) Comprehensive Examination 1
Complementary Courses
Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

15.11.9.12 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 Code</th>
<th>Credits</th>
<th>Course Name</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 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>
<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
GEOG 700 (0) Comprehensive Examination 1
GEOG 701 (0) Comprehensive Examination 2
GEOG 702 (0) Comprehensive Examination 3

15.11.9.13 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 Code</th>
<th>Credits</th>
<th>Course Name</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.

**15.11.9.14 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 Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BIOL 640</td>
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<td>Tropical Biology and Conservation</td>
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<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>
<tr>
<td>GEOG 702</td>
<td>0</td>
<td>Comprehensive Examination 3</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.

**15.11.10 History and Classical Studies**

**15.11.10.1 Location**

Department of History and Classical Studies  
Stephen Leacock Building, 7th floor  
855 Sherbrooke Street West  
Montreal QC H3A 2T7  
Canada
15.11.10.2 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, and 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 Trust, 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 (www.mcgill.ca/history).

Degrees in History

The M.A. 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 15.11.10.5: 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 15.11.10.6: 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 15.11.10.7: 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 15.11.10.8: 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 15.11.10.9: 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 15.11.10.10: 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 a variety of graduate-level courses on international development issues and write their research paper on a topic approved by the DSO coordinating committee.

section 15.11.10.11: 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 15.11.10.12: 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 15.11.10.13: 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 15.11.10.14: 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 15.11.10.15: 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 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 15.11.10.16: Master of Arts (M.A.); Classics (Non-Thesis) (48 credits)


section 15.11.10.17: Doctor of Philosophy (Ph.D.); Classics


15.11.10.3 History and Classical Studies Admission Requirements and Application Procedures

15.11.10.3.1 Admission Requirements

General: minimum CGPA of 3.3 on 4.0; minimum TOEFL of 550 on the paper-based test, or 86 on the Internet-based test, with each component score no less than 20.

Master in History

Normally, candidates are required to possess a B.A. (Honours) in History consisting of 60 credits in history. Students with other undergraduate history degrees (normally including serious research components) may be considered eligible. Applicants not satisfying these conditions but otherwise judged 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.

Ph.D. in Classics
Candidates are required to have a McGill M.A. in Classics or equivalent.

1511.1032 Application Procedures
McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See section 5.3: Application Procedures for detailed application procedures.

Refer to the Department of History and Classical Studies website for detailed information (www.mcgill.ca/history/graduate).

1511.1033 Application Deadlines
The application deadlines listed here 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.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

1511.104 History and Classical Studies Faculty

Chair
Elizabeth Elbourne

Director of Classical Studies
Hans Beck

Graduate Program Director
Brian Lewis

Coordinators of Graduate Funding
Lorenz Lüthi
Griet Vankeerberghen

Emeritus Professors
Valentin J. Boss; B.A.(Cant.), Ph.D.(Harv.)
Myron Echenberg; M.A.(McG.), Ph.D.(Wisc.)
Andrée Lévesque; B.A.(Laval), M.A., Ph.D.(Duke)
Emeritus Professors

Michael P. Maxwell; B.A.(Sir G. Wm.s.), 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)
John W. Hellman; B.A.(Marq.), M.A., Ph.D.(Harv.)
Peter Hoffmann; Ph.D.(Munich), F.R.S.C. (William Kingsford Professor of History)
Gershon D. Hundert; B.A., M.A.(Ohio St.), Ph.D.(Col.) (Leanor Segal Professor of Jewish Studies) (joint appt. with Jewish Studies)
Brian Lewis; B.A., M.A.(Oxf.), A.M., Ph.D.(Harv.)
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)
Gil E. Troy; A.B., A.M., Ph.D.(Harv.)
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 H. 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.) (Canada Research Chair)
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.)
Elisabeth Heaman; B.A., M.A.(McG.), Ph.D.(Toronto) (Canada Research Chair)
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.)
Jason Opal; B.A.(Cornell), M.A., Ph.D.(Brandeis)
Laila Parsons; B.A.(Exce.), D.Phil.(Oxf.) (joint appt. with Institute of Islamic Studies)
R. Jarrett Rudy; B.A., M.A.(Ott.), Ph.D.(McG.)
Daviken Studnicki-Gizbert; B.A.(Montr.), M.Phil., Ph.D.(Yale)
Griet Vankeerberghen; License(Louvain), Ph.D.(Princ.)
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)
Charles W. Gladhill; B.A.(Mich.), M.A.(Georgia South.), Ph.D.(Stan.)
Lynn Kozak; B.A.(Col.), M.A.(Lond.), Ph.D.(Nott.)
James Krapfl; A.B.(Stan.), M.A.(CEU), Ph.D.(Calif.)
Laura Madokoro; B.A.(Wat.), M.A.(Tor.), Ph.D.(Br. Col.)
Jon Dylan Soske; B.A.(USC), M.A.(Calif., Berk.), Ph.D.(Tor.)
Judith Szapor; B.A., M.A., Ph.D.(York)
Gavin Walker; B.A., M.A.(Penn.), Ph.D.(Cornell) (joint appt. with East Asian Studies)

Part-Time Assistant Professor
Jason Szabo; M.D.(Alta.), M.A., Ph.D.(McG.)

Faculty Lecturers
Shanon Fitzpatrick; B.A.(Col.), Ph.D.(Calif., Irvine)
Margaret Palczynski; B.Sc.(McG.), M.A.(C'dia)
Daniel Rueck; B.A.(Dordt), M.A., Ph.D.(McG.)
Martin Sirois; B.A., M.A.(Montr.), M.A., Ph.D.(Princ.)

15.11.10.5 Master of Arts (M.A.); History (Thesis) (45 credits)

Thesis Courses (33 credits)
HIST 696 (9) Thesis Research 1
HIST 697 (12) Thesis Research 2
HIST 698 (12) Thesis Research 3

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.

15.11.10.6 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)
HIST 696 (9) Thesis Research 1
HIST 697 (12) Thesis Research 2
HIST 698 (12) Thesis Research 3

Required Course (3 credits)
INTD 657 (3) Development Studies Seminar

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.

15.11.10.7 Master of Arts (M.A.); History (Thesis) — European Studies (45 credits)

Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>HIST 697</td>
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<tr>
<td>HIST 698</td>
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Required Courses (3 credits)

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<tr>
<td>HIST 659</td>
<td>3</td>
<td>Interdisciplinary Seminar in European Studies</td>
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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.

15.11.10.8 Master of Arts (M.A.); History (Thesis) — Gender and Women's Studies (45 credits)

Thesis Courses (33 credits)

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<tr>
<th>Course</th>
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Required Courses (3 credits)

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<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
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</table>

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.

15.11.10.9 Master of Arts (M.A.); History (Non-Thesis) (45 credits)

Research Project (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 687</td>
<td>9</td>
<td>M.A. Paper 1</td>
</tr>
<tr>
<td>HIST 688</td>
<td>6</td>
<td>M.A. 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>HIST 684</td>
<td>3</td>
<td>Research Proposal</td>
</tr>
</tbody>
</table>
**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.

**15.11.10.10 Master of Arts (M.A.); History (Non-Thesis) — Development Studies (45 credits)**

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 687</td>
<td>9</td>
<td>M.A. Paper 1</td>
</tr>
<tr>
<td>HIST 688</td>
<td>6</td>
<td>M.A. Paper 2</td>
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</table>

**Required Courses (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 684</td>
<td>3</td>
<td>Research Proposal</td>
</tr>
<tr>
<td>HIST 685</td>
<td>3</td>
<td>Directed Research</td>
</tr>
<tr>
<td>HIST 686</td>
<td>6</td>
<td>Bibliography Tutorial</td>
</tr>
<tr>
<td>INTD 657</td>
<td>3</td>
<td>Development Studies Seminar</td>
</tr>
</tbody>
</table>

**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.

**15.11.10.11 Master of Arts (M.A.); History (Non-Thesis) — European Studies (45 credits)**

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 687</td>
<td>9</td>
<td>M.A. Paper 1</td>
</tr>
<tr>
<td>HIST 688</td>
<td>6</td>
<td>M.A. Paper 2</td>
</tr>
</tbody>
</table>

**Required Courses (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 659</td>
<td>3</td>
<td>Interdisciplinary Seminar in European Studies</td>
</tr>
<tr>
<td>HIST 684</td>
<td>3</td>
<td>Research Proposal</td>
</tr>
<tr>
<td>HIST 685</td>
<td>3</td>
<td>Directed Research</td>
</tr>
<tr>
<td>HIST 686</td>
<td>6</td>
<td>Bibliography Tutorial</td>
</tr>
</tbody>
</table>

**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.
15.11.10.12 Master of Arts (M.A.); History (Non-Thesis) — Gender and Women Studies (45 credits)

Research Project (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 687</td>
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<td>M.A. Paper 1</td>
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<tr>
<td>HIST 688</td>
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Required Courses (15 credits)

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 684</td>
<td>3</td>
<td>Research Proposal</td>
</tr>
<tr>
<td>HIST 685</td>
<td>3</td>
<td>Directed Research</td>
</tr>
<tr>
<td>HIST 686</td>
<td>6</td>
<td>Bibliography Tutorial</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

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.

15.11.10.13 Master of Arts (M.A.); History of Medicine (Non-Thesis) (45 credits)

Research Project (15 credits)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 687</td>
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<tr>
<td>HIST 688</td>
<td>6</td>
<td>M.A. Paper 2</td>
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</tbody>
</table>

Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 684</td>
<td>3</td>
<td>Research Proposal</td>
</tr>
<tr>
<td>HIST 685</td>
<td>3</td>
<td>Directed Research</td>
</tr>
<tr>
<td>HIST 686</td>
<td>6</td>
<td>Bibliography Tutorial</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 636</td>
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<td>Medieval Medicine Seminar 1</td>
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<tr>
<td>HIST 637</td>
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<td>HIST 640</td>
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<td>Modern Medicine Seminar 1</td>
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<td>HIST 641</td>
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</tr>
<tr>
<td>HSSM 604</td>
<td>3</td>
<td>History of Medicine</td>
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</table>

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.

15.11.10.14 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

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>HIST 701</td>
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<td>Doctoral Seminar</td>
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<tr>
<td>HIST 702</td>
<td>(0)</td>
<td>Comprehensive Examination - Major Field</td>
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<tr>
<td>HIST 703</td>
<td>(0)</td>
<td>Comprehensive Examination - First Minor Field</td>
</tr>
<tr>
<td>HIST 704</td>
<td>(0)</td>
<td>Comprehensive Examination - Second Minor Field</td>
</tr>
</tbody>
</table>

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.

15.11.10.15 Master of Arts (M.A.); Classics (Thesis) (45 credits)

Thesis Courses (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CLAS 696</td>
<td>(6)</td>
<td>M.A. Thesis Research 1</td>
</tr>
<tr>
<td>CLAS 697</td>
<td>(6)</td>
<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.

15.11.10.16 Master of Arts (M.A.); Classics (Non-Thesis) (48 credits)

**This program is currently not offered.**

Research Project (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 681</td>
<td>(3)</td>
<td>M.A. Research Paper 1</td>
</tr>
<tr>
<td>CLAS 682</td>
<td>(3)</td>
<td>M.A. Research Paper 2</td>
</tr>
<tr>
<td>CLAS 683</td>
<td>(3)</td>
<td>M.A. Research Paper 3</td>
</tr>
<tr>
<td>CLAS 684</td>
<td>(3)</td>
<td>M.A. Research Paper 4</td>
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</table>

Complementary Courses (24 credits)

All seminars in Classics, Ancient History, and ancient Philosophy count for the seminars requirement of the complementary courses.

Special Subjects (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 685D1</td>
<td>(3)</td>
<td>M.A. Special Subject 1</td>
</tr>
</tbody>
</table>
Doctor of Philosophy (Ph.D.); Classics

**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.

**Complementary Courses (24 credits)**
All seminars in Classics, Ancient History and ancient Philosophy count for the seminars requirement of the complementary courses.

**15.11.11 Information Studies**

**15.11.11.1 Location**
School of Information Studies
3661 Peel Street
Montreal QC H3A 1X1
Canada

Telephone: 514-398-4204
Fax: 514-398-7193
Email: sis@mcgill.ca
Website: www.mcgill.ca/sis

**15.11.11.2 About Information Studies**
The School of Information Studies (SIS) at McGill University is a dynamic teaching and research unit engaged in the education of information professionals and scholars. At the School, we educate individuals who make a difference in the management and design of information resources, services, and systems from a human-centred perspective, and find better ways to organize, access, disseminate, use, and preserve information and recorded knowledge. As the pioneer school of its kind in Canada, SIS has been offering programs at McGill since 1897, with continuous accreditation by the American Library Association (ALA) since 1929. The School offers a Master of Information Studies (M.I.St.), post-M.I.St. certificate and diploma programs, and a Ph.D. in Information Studies.

Information Studies is the name assigned to a wide-ranging discipline. Faculty members are all engaged in the broad research area of Human-Information Interaction (HII), which includes our core research areas of Human-Computer Interaction, Information Behaviour and Services, and Information and Knowledge Management, with projects in areas such 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 our website at www.mcgill.ca/sis.

For complete information about our programs, please see the Programs & courses section of our website.

section 15.11.11.5: Master of Information Studies (M.I.St.); Information Studies (Non-Thesis) (48 credits)
The Master of Information Studies is a 48-credit non-thesis program, accredited by the American Library Association (ALA). This program is designed to prepare graduates for the broad field of Information Studies. Courses are offered in areas of specialization including: Archival Studies, Information and Computer Technologies, Knowledge Management, and Library Studies, among others. The program begins with a set of common courses followed by two streams: students may choose either a stream comprised of courses in areas of specialization, or another stream to conduct a major research project. The program provides the intellectual foundation 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 access to information as a fundamental human right; and educates service-oriented professionals.

section 15.11.11.6: 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
section 15.11.11.6: Doctor of Philosophy (Ph.D.); Information Studies

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 15.11.11.7: Graduate Certificate in Library and Information Studies (15 credits)

The Graduate Certificate 15-credit program is 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.

section 15.11.11.8: Graduate Diploma in Library and Information Studies (30 credits)

The Graduate Diploma 30-credit program provides professional librarians and information specialists currently holding an American Library Association (ALA)-accredited (or equivalent) master's degree with formal opportunities to update, specialize, and redirect their careers for advanced responsibility. For those considering admission into the doctoral program, it will provide an opportunity to further develop their research interests. The program may be completed in one calendar year, or on a part-time basis to a maximum of five years.

15.11.11.3 Information Studies Admission Requirements and Application Procedures

15.11.11.3.1 Admission Requirements

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

1. Applicants must have a bachelor's degree from a recognized university. Academic Standing of at least B, or second class – upper division, or a CGPA of 3.0 out of 4.0 is required. 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 600 (paper-based test), 100 (iBT Internet-based TOEFL) 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. Competency in the use of computers is expected. Applicants should have a thorough knowledge of the Windows operating system, particularly file and word processing, and presentation software such as PowerPoint.

4. Previous library work experience, while not essential, will be given consideration in assessing an application, but this experience cannot replace academic criteria.

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.

   A CGPA of at least 3.0 out of 4.0 at both the undergraduate and graduate levels is required.

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 600 (paper-based test), 100 (iBT Internet-based TOEFL) 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 600 (paper-based test), 100 (iBT Internet-based TOEFL) 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 the Admissions section of the School's website.

Graduate Diploma 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). Admission of students with overseas degrees will be guided by the M.L.I.S. equivalency standards of the A.L.A. Applicants will normally have at least three years' professional experience following completion of the M.L.I.S.

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 600 (paper-based test), 100 (iBT Internet-based TOEFL) 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.

1511.13.2 Application Procedures

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

1511.13.2.1 Additional Requirements

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

- Two academic reference letters; if degree was awarded more than five years ago, two employer letters of recommendation instead of academic letters
- Personal Statement
- Curriculum Vitae
- Research Proposal – Ph.D. only

Ph.D. applicants are encouraged to review the Faculty and Research sections of the School's website to assist in identifying possible dissertation supervisors and to become familiar with the School’s research areas before applying to the program. Questions can be addressed to the Ph.D. Program Director.

1511.13.3 Application Deadlines

The application deadlines listed here are set by the School of Information 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.

### M.I.St., Graduate Certificate, and Graduate Diploma

<table>
<thead>
<tr>
<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Fall: Mar. 1</td>
<td>Fall: Feb. 15</td>
<td>Fall: Contact the School’s Administrative &amp; Student Affairs Coordinator</td>
</tr>
<tr>
<td><strong>Winter</strong></td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: Contact the School’s Administrative &amp; Student Affairs Coordinator</td>
</tr>
<tr>
<td><strong>Summer</strong></td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: Contact the School’s Administrative &amp; Student Affairs Coordinator</td>
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<table>
<thead>
<tr>
<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Contact the School’s Administrative &amp; Student Affairs Coordinator</td>
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<tr>
<td><strong>Winter</strong></td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
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</tr>
<tr>
<td><strong>Summer</strong></td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: Contact the School’s Administrative &amp; Student Affairs Coordinator</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete application are considered only as time and space permit.

### 15.11.14 Information Studies Faculty

**Director**

France Bouthilier
Professor
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.)
Jamshid Beheshti; B.A.(S. Fraser), M.L.S., Ph.D.(W. Ont.)
France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)
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.(McG.), M.Sc.(Aix-Marseille), Ph.D.(Paris)
Eun Park; B.A.(Pusan), M.L.I.S.(Ill.), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

Assistant Professors
M. Max Evans; B.S.(N. Illinois), M.I.St., Ph.D.(Tor.)
Ilja Frissen; M.A., Ph.D.(Tilburg)
Charles-Antoine Julien; B.Eng., M.Sc.(Montr.), Ph.D.(McG.)
Elaine Ménard; B.A., M.A., M.S.I., Ph.D.(Montr.)
Karyn Moffatt; B.A.Sc., M.Sc., Ph.D.(Br. Col.)

Adjunct Professor
Joy Bennett; B.A., M.A.(C'dia), M.L.I.S.(McG.), Ph.D.(C'dia)

Associate Members
Gordon Burr; B.A., M.L.I.S.(McG.), Senior Archivist, Records Management, McGill University Archives
Pierre Pluye; M.D.(Toulouse), M.Sc., Ph.D.(Montr.), Dept. of 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.)
Frances Groen; B.A., B.L.S.(Tor.), M.A.(Pitt.), Trenholme Director Emerita of Libraries, McGill University

Part-Time Instructors
Nathalie Belanger; LL.B., D.D.N.(Montr.), M.L.I.S.(McG.)
Nathalie Blanchard; B.A., B.F.A.(C'dia), M.L.I.S.(McG.)
Heather Brydon; B.Ed.(Saint-Boniface), M.L.I.S.(McG.)
Catherine Jenner; B.A., LL.B., M.L.S.(Tor.), B.C.L.(Montr.)
Jessica Lange; B.Mus.(W.Ont.), M.L.I.S.(McG.) (Management Liaison Librarian, McGill Libraries)
Justin Soles; B.A., M.L.I.S.(McG.)
David Weigl; B.Sc., M.Sc.(Edin.)

15.11.11.5 Master of Information Studies (M.I.St.); Information Studies (Non-Thesis) (48 credits)
The Master of Information Studies consists of a 48-credit non-thesis program, accredited by the American Library Association. This program is designed to prepare graduates for the broad field of information studies and has two streams: Course-based and Research Project. The program: provides the intellectual foundation 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 (12 credits)
GLIS 601 (3) Foundations of Information Studies
GLIS 607 (3) Organization of Information
GLIS 617 (3) Information System Design
GLIS 619 (3) Information Behaviour and Resources

**Complementary Courses (24-36 credits)**

Students choose either Stream A or Stream B complementary courses in consultation with an adviser.

**Stream A - Course-based**

3 credits

GLIS 602 (3) Integrating Research and Practice

And 21-33 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
GLIS 613 (3) Library and Archival History
GLIS 614 (3) Public Libraries
GLIS 615 (3) Reference & Information Services
GLIS 616 (3) Information Retrieval
GLIS 620 (3) Information Agency Management
GLIS 626 (3) Usability Analysis and Assessment
GLIS 632 (3) Library Systems
GLIS 633 (3) Multimedia Systems
GLIS 634 (3) Web System Design and Management
GLIS 636 (3) Government Information
GLIS 637 (3) Scientific & Technical Information
GLIS 638 (3) Business Information
GLIS 639 (3) Introduction to Museology
GLIS 641 (3) Archival Description and Access
GLIS 642 (3) Preservation Management
GLIS 644 (3) Descriptive Bibliography
GLIS 645 (3) Archival Principles and Practice
GLIS 649 (3) Digital Curation
GLIS 650 (3) Digital Libraries
GLIS 651 (3) Humanities and Social Science Information
GLIS 655 (3) Language and Information
GLIS 656 (3) Abstracting and Indexing
GLIS 657 (3) Database Design & Development
GLIS 660 (3) Records Management
GLIS 661 (3) Knowledge Management
GLIS 662 (3) Intellectual Capital
GLIS 663 (3) Knowledge Taxonomies
GLIS 664 (3) Knowledge Networks
GLIS 665 (3) Competitive Intelligence
GLIS 671 (3) Health Sciences Information
GLIS 672 (3) Law Information
GLIS 673 (3) Bioinformatics Resources
GLIS 679 (3) Information Literacy
GLIS 689 (3) Selected Topics
GLIS 690 (3) Information Policy
GLIS 691 (3) Special Topics 1
GLIS 692 (3) Special Topics 2
GLIS 699 (3) Practicum

Stream B - Research Project
12 credits from the following:
GLIS 603 (3) Research Project 1
GLIS 604 (3) Research Project 2
GLIS 647 (6) Research Project 3

3 credits from the following:
EDEM 690 (3) Research Methods: Philosophy and Practice
EDPE 605 (3) Research Methods
GLIS 611 (3) Research Principles and Analysis

And 9-21 credits from the following:
GLIS 602 (3) Integrating Research and Practice
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
GLIS 613 (3) Library and Archival History
GLIS 614 (3) Public Libraries
GLIS 615 (3) Reference & Information Services
GLIS 616 (3) Information Retrieval
GLIS 620 (3) Information Agency Management
GLIS 626 (3) Usability Analysis and Assessment
GLIS 633 (3) Multimedia Systems
GLIS 634 (3) Web System Design and Management
GLIS 636 (3) Government Information
GLIS 637 (3) Scientific & Technical Information
GLIS 638 (3) Business Information
GLIS 639 (3) Introduction to Museology
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.

15.11.11.6 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.

GLIS 701 (0) Comprehensive Examination
GLIS 702 (3) Seminar in Information Studies
Students may also be required to take additional courses to prepare them for their research.

**15.11.11.7 Graduate Certificate in 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 646</td>
<td>12</td>
<td>Research Project</td>
</tr>
<tr>
<td>GLIS 647</td>
<td>6</td>
<td>Research Project 3</td>
</tr>
<tr>
<td>GLIS 689</td>
<td>3</td>
<td>Selected Topics</td>
</tr>
<tr>
<td>GLIS 695</td>
<td>6</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>GLIS 696D1</td>
<td>6</td>
<td>Research Paper 2</td>
</tr>
<tr>
<td>GLIS 696D2</td>
<td>6</td>
<td>Research Paper 2</td>
</tr>
</tbody>
</table>

Note: students who wish to register for:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 694</td>
<td>3</td>
<td>Certificate Project</td>
</tr>
</tbody>
</table>

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.

**15.11.11.8 Graduate Diploma in Library and Information Studies (30 credits)**

**Research Paper**

(6-18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 695</td>
<td>6</td>
<td>Research Paper 1</td>
</tr>
<tr>
<td>GLIS 696D1</td>
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<td>Research Paper 2</td>
</tr>
<tr>
<td>GLIS 696D2</td>
<td>6</td>
<td>Research Paper 2</td>
</tr>
</tbody>
</table>

**Complementary Courses**

(9-24 credits)

Three to eight GLIS courses chosen in consultation with the student's adviser with the exception of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLIS 646</td>
<td>12</td>
<td>Research Project</td>
</tr>
<tr>
<td>GLIS 647</td>
<td>6</td>
<td>Research Project 3</td>
</tr>
<tr>
<td>GLIS 689</td>
<td>3</td>
<td>Selected Topics</td>
</tr>
<tr>
<td>GLIS 694</td>
<td>3</td>
<td>Certificate Project</td>
</tr>
</tbody>
</table>

0-15 credits of non-GLIS courses, a maximum of one-third of which may be from outside McGill. All such courses must be at a graduate level and receive the prior approval of the student's adviser and the School's Director.
15.11.12 Institute for the Study of International Development

15.11.12.1 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

Philip Oxhorn – 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

15.11.12.2 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 four themes: democracy and democratization; economic development; states and state-building; and social pluralism and civil society. 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: Anthropology, Economics, Geography, History, Political Science, and Sociology. Further information about this option can be found in these departmental sections of this publication and on the ISID website at www.mcgill.ca/isid/teaching-programs/graduate/option.

15.11.12.3 Institute for the Study of International Development Admission Requirements and Application Procedures

1511.1231 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.

1511.1232 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.

1511.1233 Application 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 (Anthropology, Economics, Geography, History, Political Science, or Sociology); departmental contact info is available at www.mcgill.ca/gps/contact/graduate-program.
15.11.13 Islamic Studies

15.11.13.1 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

15.11.13.2 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; and 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 the 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; and 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 Islamic languages.

section 15.11.13.5: 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 at the first-year level is an asset. The atmosphere at the Institute is strongly international 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 15.11.13.6: 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 at the first-year level is an asset. The student’s master’s thesis must be on a topic centrally relating to issues of gender and/or women’s studies. 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 15.11.13.7: 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 at the second-year level is an asset. Admission to the Ph.D. program will be granted on the basis of the Admissions Committee’s opinion that the applicant can successfully fulfil the academic requirements of the program within an appropriate span of time (normally six years). The language component of the degree is demanding; students are required to have knowledge of Arabic, a second Islamic language and a research, usually European, language. 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 15.11.13.8: 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 at the second-year level is an asset. Admission to the Ph.D. program will be granted on the basis of the Admissions Committee’s opinion that the applicant can successfully fulfil the academic requirements of the program within an appropriate span of time (normally six years). The language component of the degree is demanding; students are required to have knowledge of Arabic, a second Islamic language and a research, usually European, language. 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.
15.11.13.3 Islamic Studies Admission Requirements and Application Procedures

15.11.13.3.1 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 for more information (www.mcgill.ca/gradapplicants/apply/prepare/international/proficiency).

15.11.13.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

15.11.13.3.2.1 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 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 web page for Prospective Students – Applications

15.11.13.3.3 Application Deadlines

The application deadlines listed here 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 list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.13.4 Islamic Studies Faculty

**Director**

F. Jamil Ragep

**Emeritus and Retired Professors**

Sajida S. Alvi; B.A., M.A., Ph.D.(Punj.) *emeritus*

Issa J. Boullata; Ph.D.(Lond.) *emeritus*

Donald P. Little; B.A.(Vanderbilt), M.A.(Stan.), Ph.D.(Calif.) *emeritus*

Eric Ormsby; B.A.(Penn.), M.A.(Princ.), M.L.S.(Rutg.), Ph.D.(Princ.) *retired*

A. Üner Turgay; B.A.(Robert Coll., Istanbul), M.A., Ph.D.(Wisc.) *retired*

**Professors**

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*


Michelle L. Hartman; B.A.(Col.), D.Phil.(Oxf.)

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
Ahmed Fekry Ibrahim; B.A.(al-Azhar), M.A.(Amer. Univ. Cairo), Ph.D.(G'town)
Prashant Keshavmurthy; B.A.(Jawaharlal Nehru), M.A.(Delhi), Ph.D.(Col.)
Pasha M. Khan; B.A.(Tor.), M.A., Ph.D.(Col.) (Chair in Urdu Language and Culture)

Faculty Lecturers
Shokry Gohar; B.A.(Cairo), M.A.(C'dia)
David Nancekivell; B.A., M.A.(Laval)
Pouneh Shabani-Jadidi; B.A., M.S., Ph.D.(Azad), Ph.D.(Ott.)

15.11.13.5 Master of Arts (M.A.); Islamic Studies (Thesis) (45 credits)

Thesis Courses (24 credits)
ISLA 697  (6)  Thesis Research 1
ISLA 698  (6)  Thesis Research 2
ISLA 699  (12)  Thesis Research 3

Required Course (3 credits)
ISLA 603  (3)  Introductory: Research Materials - Islamic Studies

Language Requirement
Students must demonstrate proficiency in Arabic at the second-year level as evidenced by completion of ISLA 522 or by an examination administered by the Institute.

Complementary Courses (18 credits)

3 credit seminar course at the 600 or 700 level.
15 credits of ISLA courses at the 500, 600, or 700 level.
With permission of the Institute, up to 6 credits from other departments at McGill or other educational institutions can be used.

15.11.13.6 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.

Required Courses (30 credits)
ISLA 603*  (3)  Introductory: Research Materials - Islamic Studies
WMST 601  (3)  Feminist Theories and Methods

* Note: Unless exempt. If exempt, another graduate-level course must replace this course.

Thesis
ISLA 697  (6)  Thesis Research 1
ISLA 698  (6)  Thesis Research 2
ISLA 699  (12)  Thesis Research 3


### Complementary Courses (15 credits)

3 credit of a seminar course at the 600 or 700 level.

3 credits from the following:

- WMST 602 (3) Feminist Research Symposium

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.

### Language Requirement

Students must demonstrate proficiency in Arabic at the second-year level as evidenced by completion of ISLA 522 or by an examination administered by the Institute.

### 15.11.13.7 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLA 701</td>
<td>0</td>
</tr>
</tbody>
</table>

**Comprehensive Examination**

#### Complementary Courses (30 credits)

30 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.

- ISLA 603 (3 credits): Intro: Research Materials - Islamic Studies is highly recommended.

- Note: ISLA 521D (9 credits) will not count toward the 30 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 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 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, 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.

### 15.11.13.8 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 (6 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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 (24 credits)**

24 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.

- ISLA 603 (3 credits): Introductory: Research Materials - Islamic Studies is highly recommended.
- * Note: ISLA 521D will not count toward the 24-credit complementary course requirement.

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 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 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, 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.

**15.11.14 Jewish Studies**

**15.11.14.1 Location**

- Department of Jewish Studies
- 855 Sherbrooke West, Leacock Building, 7th floor
- Montreal QC H3A 2T7
- Canada

- Telephone: 514-398-6543
- Website: [www.mcgill.ca/jewishstudies](http://www.mcgill.ca/jewishstudies)

**15.11.14.2 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 15.11.14.5: 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 15.11.14.6: 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.

15.11.14.3 Jewish Studies Admission Requirements and Application Procedures

15.11.14.3.1 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.

15.11.14.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

15.11.14.3.2.1 Additional Requirements

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

- Research Proposal
- Curriculum Vitae
- Written Work

15.11.14.3.3 Application Deadlines

The application deadlines listed here 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.

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<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Winter: Sept. 15</td>
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<td>Winter: Sept. 15</td>
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<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.14.4 Jewish Studies Faculty

Chair and Graduate Program Director

TBA
**Professors**

David Aberbach; B.A. (Univ. Coll., Lond.), M.Litt., Ph.D. (Oxf.)

Gershon Hundert; B.A. (Col.), M.A. (Ohio St.), Ph.D. (Col.) (*Leanor Segal Professor of Jewish Studies* (*joint appt. with History*)

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 appt. with Integrated Studies in Education*)

Carlos Fraenkel; B.A., M.A., Ph.D. (Free Univ., Berlin) (*joint appt. with Philosophy*)

Yael Halevi-Wise; B.A. (Hebrew), M.A. (G'town), Ph.D. (Princ.) (*joint appt. with English*)

Lawrence Kaplan; B.A. (Yeshiva), M.A., Ph.D. (Harv.)

**Assistant Professor**

Daniel Heller; B.A. (Tor.), Ph.D. (Stan.)

**Adjunct Professors**

Magdalena Opalski; M.A. (Warsaw), Ph.D. (Ott.)

Ruth Wisse; M.A. (Col.), Ph.D. (McG.)

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**15.11.14 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.

**Jewish Studies Stream (45 credits)**

**Thesis Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Description</th>
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<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>
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</table>

**Required Course (3 credits)**

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<tr>
<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
<td>JWST 699</td>
<td>3</td>
<td>Research in Jewish Studies</td>
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</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>
<th>Credit</th>
<th>Description</th>
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<tbody>
<tr>
<td>JWST 690</td>
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<td>M.A. Thesis 1</td>
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<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>
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<td>M.A. Thesis 4</td>
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Required Courses (6 credits)

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<tr>
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<th>Title</th>
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</thead>
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<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.

15.11.14.6 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)

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>JWST 699</td>
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<td>Research in Jewish Studies</td>
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</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)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>JWST 504</td>
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<td>Seminar in Jewish Thought</td>
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<td>JWST 510</td>
<td>3</td>
<td>Jewish Bible Interpretation 1</td>
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<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 Parshah</td>
</tr>
<tr>
<td>JWST 543</td>
<td>3</td>
<td>Maimonides as Parshah</td>
</tr>
<tr>
<td>JWST 558</td>
<td>3</td>
<td>Topics: Modern Jewish Thought</td>
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<tr>
<td>JWST 604</td>
<td>3</td>
<td>Topics: In Jewish Thought</td>
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</table>

Jewish History (12-15 credits)

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<tr>
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<td>Tutorial</td>
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<tr>
<td>HIST 677D1</td>
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<td>Seminar: European Jewish History</td>
</tr>
<tr>
<td>HIST 677D2</td>
<td>3</td>
<td>Seminar: European Jewish History</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>
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</table>

Jewish Literature (12-15 credits)

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<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>
</tbody>
</table>
15.11.15 Languages, Literatures, and Cultures

15.11.15.1 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

15.11.15.2 About Languages, Literatures, and Cultures

The Department’s graduate programs in German, Hispanic, Italian, and Russian Studies offer a vibrant research environment, combining the rigour of traditional philological inquiry with a range of other theoretical and methodological approaches, many of them informed and/or creatively challenged by broader transnational and interdisciplinary perspectives. The Department is committed to international standards of excellence in graduate student training.

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 our Department often spend time abroad in Germany and Austria and take part in conference and workshop organization. Notable facilities and resources connected with German Studies include the Interacting with Print research group and 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.

HISPANIC STUDIES

The Department of 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, the Department of Hispanic Studies has three outstanding research areas: Colonial and Peninsular Baroque and Enlightenment, with a variety of intellectual and methodological approaches; Queer Studies, particularly focused on contemporary Argentina and Spain; and Film and Literary Studies on contemporary Latin America. The Department 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.

ITALIAN STUDIES

The Department’s 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.

A) 19th, 20th, and 21st century narrative;
B) Medieval and Renaissance literature and culture; and
C) 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 the Graduate and Postdoctoral Studies eCalendar under University Regulations and Resources.

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.

RUSSIAN AND SLAVIC STUDIES

Master's and Ph.D. in Russian

The Department of Russian and Slavic Studies of McGill University 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, and intertextuality. We also offer a broad and flexible range of graduate seminars. Graduate students collaborate with the Department of Art History and Communication Studies; the World Cinemas Department; and the McGill Centre for Research and Teaching on Women (MCRTW). 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.

GERMAN STUDIES

section 15.11.15.5: 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 15.11.15.6: 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 15.11.15.7: 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.

HISPANIC STUDIES

section 15.11.15.8: 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 15.11.15.9: 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 15.11.15.10: 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.

ITALIAN STUDIES

section 15.11.15.11: 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 15.11.15.12: 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.

RUSSIAN AND SLAVIC STUDIES

section 15.11.15.13: 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 15.11.15.14: Doctor of Philosophy (Ph.D.); Russian

The Ph.D. in Russian and Slavic Studies consists of coursework, multiple examinations, language requirements, and 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. They 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.

15.11.15.3 Languages, Literatures, and Cultures Admission Requirements and Application Procedures

1511.1531 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 Internet-based TOEFL examination. 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 center. No paper test report forms will be accepted. An institutional code is NOT required; applicants must ask the test center 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)
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 Graduate Committee of the Department of Hispanic Studies 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 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 Department 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 the Department or elsewhere at McGill. Certain graduate courses may be taken by arrangement at approved universities.

1511.1532 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 section 5.3: Application Procedures for detailed application procedures.

1511.1532 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
- Interview – for Russian and Slavic Studies only; where appropriate, if necessary by telephone, with members of the Department Graduate Committee

1511.1533 Application Deadlines

The application deadlines listed here 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.

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<th>Special/Exchange/Visiting</th>
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<td>Fall: Same as Canadian/International</td>
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<td>Winter: Oct. 15</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.

1511.1534 Languages, Literatures, and Cultures Faculty

Chair

TBA
<table>
<thead>
<tr>
<th>Directors of Graduate Studies</th>
</tr>
</thead>
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<table>
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<th>Emeritus Professors</th>
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<tbody>
<tr>
<td>P.M. Daly; B.A.(Brist.), Ph.D.(Zür.)</td>
</tr>
<tr>
<td>P.D. Stewart; B.A.(Montr.), M.A.(McG.), F.R.S.C.</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>J. Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)</td>
</tr>
<tr>
<td>P. Peters; Ph.D.(Free Univ., Berlin)</td>
</tr>
<tr>
<td>K. Sibbald; M.A.(Cant.), M.A.(Liv.), Ph.D.(McG.)</td>
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<tbody>
<tr>
<td>K. Bauer; M.A., Ph.D.(Wash.)</td>
</tr>
<tr>
<td>L. Beraha; B.A., M.A., Ph.D.(McG.)</td>
</tr>
<tr>
<td>E. Bolongaro; B.A., LL.B.(Br. Col.), M.A., Ph.D.(McG.)</td>
</tr>
<tr>
<td>D.A. Boruchoff; A.B., A.M., Ph.D.(Harv.)</td>
</tr>
<tr>
<td>M. Cowan; B.A., Ph.D.(Calif., Berk.)</td>
</tr>
<tr>
<td>A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)</td>
</tr>
<tr>
<td>J.R. Jouvé-Martin; Lic.Fil.(Madrid), Ph.D.(G'town)</td>
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<tr>
<td>L. Kroha; B.A., M.A.(McG.), Ph.D.(Harv.)</td>
</tr>
<tr>
<td>F. Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)</td>
</tr>
<tr>
<td>L. Parts; M.A., Ph.D.(Col.)</td>
</tr>
<tr>
<td>A. Piper; B.A.(Princ.), Ph.D.(Col.)</td>
</tr>
<tr>
<td>S. Sinclair; Ph.D.(Qu.), M.A.(Vic., BC), B.A.(Br. Col.)</td>
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<table>
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<th>Assistant Professors</th>
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<tbody>
<tr>
<td>L. Alonso-Ovalle; Lic.(Oviedo), M.A., Ph.D.(Mass.) <em>(joint apt. with Linguistics)</em></td>
</tr>
<tr>
<td>A. Berman; B.A.(Brown), M.A., Ph.D.(Princ.), M.Phil.(Camb.)</td>
</tr>
<tr>
<td>S. Posthumus; Ph.D.(W. Ont.), M.A.(Qu.), B.A.(Calvin)</td>
</tr>
<tr>
<td>M. Soranzo; Dott.Lett.(Padua), Ph.D.(Wisc.)</td>
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| Master of Arts (M.A.); German (Thesis) (48 credits) |

**Thesis Courses (30 credits)**

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<td>GERM 691</td>
<td>(9)</td>
</tr>
<tr>
<td>GERM 692</td>
<td>(12)</td>
</tr>
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</table>

**Thesis Research 1**

**Thesis Research 2**

**Thesis Research 3**

**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.
**15.11.15.6 Master of Arts (M.A.); German (Non-Thesis) (45 credits)**

**Research Project (18 credits)**

GERM 680 (6)  
Research Paper 1  
GERM 681 (6)  
Research Paper 2  
GERM 682 (6)  
Research Paper 3

**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.

**15.11.15.7 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.

**15.11.15.8 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.

**15.11.15.9 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.

<table>
<thead>
<tr>
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<th>Description</th>
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<td>HISP 615</td>
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<td>Medieval and Golden Age Literature: Grp</td>
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<tr>
<td>HISP 616</td>
<td>(9)</td>
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<tr>
<td>HISP 617</td>
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<td>Modern and Contemporary Spanish-American Literature: Grp</td>
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Required Courses (6 credits)

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<td>Hispanic Bibliography 1</td>
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<tr>
<td>HISP 604</td>
<td>(3)</td>
<td>Hispanic Bibliography 2</td>
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</table>

Complementary Courses (24 credits)
Eight 3-credit graduate-level HISP courses.

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)

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<tr>
<td>HISP 713</td>
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<td>Research Seminar</td>
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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.

Master of Arts (M.A.); Italian (Thesis) (45 credits)

Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<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>
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Required Courses (12 credits)

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<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>
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</table>
ITAL 619  (3)  Topics in Literary Theory
ITAL 680  (3)  Research Seminar

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.

15.11.15.12 Master of Arts (M.A.); Italian (Non-Thesis) (45 credits)

Research Project (18 credits)
ITAL 690  (9)  Research Paper 1
ITAL 691  (9)  Research Paper 2

Required Courses (12 credits)
ITAL 602  (3)  The Literary Tradition
ITAL 610  (3)  Bibliography of Italian Literature
ITAL 619  (3)  Topics in Literary Theory
ITAL 680  (3)  Research Seminar

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.

15.11.15.13 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.
RUSS 691  (6)  M.A. Thesis Proposal
RUSS 692  (24)  M.A. Thesis

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.
**15.11.15 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**

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<td>RUSS 700</td>
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<tr>
<td>RUSS 701</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>RUSS 702</td>
<td>(0)</td>
<td>Ph.D. Thesis Proposal</td>
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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:

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<tr>
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<tr>
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<td>(0)</td>
<td>History of Russian Language</td>
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<td>RUSS 760</td>
<td>(0)</td>
<td>Pre-Petrine Foundation</td>
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<tr>
<td>RUSS 770</td>
<td>(0)</td>
<td>18th Century Foundation</td>
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</tbody>
</table>

**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.

**15.11.16 Linguistics**

**15.11.16.1 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

**15.11.16.2 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, and pragmatics) as well as 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 in good standing; 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.

**section 15.11.16.5: Master of Arts (M.A.); Linguistics (Non-Thesis) (45 credits)**
We offer an M.A. (non-thesis) degree in Linguistics. The M.A. 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.
section 15.11.16.6: Doctor of Philosophy (Ph.D.); Linguistics

We offer a Ph.D. degree in Linguistics. We offer two streams at the Ph.D. level: theoretical and experimental. 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 15.11.16.7: 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 on the following website: www.psych.mcgill.ca/lap.html.

15.11.16.3 Linguistics Admission Requirements and Application Procedures

15.11.16.3.1 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. Strong candidates who do not satisfy all requirements may be required to take additional undergraduate courses or may be admitted to a Qualifying year program, which permits them to make up the gaps in their background.

15.11.16.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

15.11.16.3.2.1 Additional Requirements

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

• Research Proposal
• Writing Sample

15.11.16.3.3 Application Deadlines

The application deadlines listed here 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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</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

15.11.16.4 Linguistics Faculty

Chair

B. Schwarz

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

Y. Grodzinsky; B.Sc.(Hebrew), Ph.D.(Brandeis) (Canada Research Chair)
L. de M. Travis; B.A.(Yale), Ph.D.(MIT)
L. White; M.A.(Camb.), Ph.D.(McG.) (James McGill Professor)
**Associate Professors**

C. Boberg; B.A.(Alta.), Ph.D.(Penn.)

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**

L. Alonso-Ovalle; B.A.(Oviedo), M.A., Ph.D.(Mass.)

M. Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)

J. Coon; B.A.(Reed), Ph.D.(MIT)

M. Sonderegger; B.S.(MIT), M.S., Ph.D.(Chic.)

**15.11.16.5 Master of Arts (M.A.); Linguistics (Non-Thesis) (45 credits)**

The M.A. in Linguistics 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)**

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<tr>
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</tr>
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<td>LING 607</td>
<td>(9)</td>
<td>M.A. Research Paper</td>
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**Required Courses (15 credits)**

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<tr>
<th>Course</th>
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<th>Description</th>
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<td>(3)</td>
<td>Graduate Research Seminar 1</td>
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<td>LING 602</td>
<td>(3)</td>
<td>Graduate Research Seminar 2</td>
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<tr>
<td>LING 631</td>
<td>(3)</td>
<td>Phonology 3</td>
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<tr>
<td>LING 660</td>
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<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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**Complementary Courses (15 credits)**

3 credits from:

<table>
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<th>Credits</th>
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<tr>
<td>LING 530</td>
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<td>Acoustic Phonetics</td>
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<td>LING 619</td>
<td>(3)</td>
<td>Experimental Linguistics: Foundations</td>
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<td>LING 635</td>
<td>(3)</td>
<td>Phonology 4</td>
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<td>LING 665</td>
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<tr>
<td>LING 675</td>
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<td>Syntax 4</td>
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</table>

9-12 credits in Linguistics at the 500, 600, or 700 level.

0-3 credits in a related field at the 500, 600, or 700 level.

**15.11.16.6 Doctor of Philosophy (Ph.D.); Linguistics**

Note: Students can select between the Theory Stream and the Experimental Stream.

**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)**

- LING 601 (3) Graduate Research Seminar 1
- LING 602 (3) Graduate Research Seminar 2
- LING 619 (3) Experimental Linguistics: Foundations
- LING 631 (3) Phonology 3
- 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 (18 credits)**

3 credits from the following:

- LING 520 (3) Sociolinguistics 2
- LING 521 (3) Dialectology
- LING 530 (3) Acoustic Phonetics
- LING 550 (3) Computational Linguistics
- LING 555 (3) Language Acquisition 2
- LING 590 (3) Language Acquisition and Breakdown
- LING 620 (3) Experimental Linguistics: Methods
- LING 650 (3) Testing Theories in the Laboratory
- LING 651 (3) Topics in Acquisition of Phonology
- LING 655 (3) Theory of L2 Acquisition
- LING 721 (3) Advanced Seminar 1
- LING 722 (3) Advanced Seminar 2
- LING 751 (3) Advanced Seminar: Experimental 1
- LING 752 (3) Advanced Seminar: Experimental 2

6 additional credits at the 500, 600, or 700 level at least one in the student's intended research area.

Note: Students intending to specialize in semantics must take the following course:

- LING 661 (3) Advanced Formal Methods

9 additional credits from one of the following streams:

**Theory Stream:**

- LING 635 (3) Phonology 4
- LING 665 (3) Semantics 4
- LING 675 (3) Syntax 4
Experimental Stream:
Students in this stream cannot take LING 620 in the first group of Complementary Courses.
6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>LING 530</td>
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<td>LING 665</td>
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<td>Semantics 4</td>
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<tr>
<td>LING 675</td>
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3 credits:

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<tr>
<td>LING 620</td>
<td>3</td>
<td>Experimental Linguistics: Methods</td>
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15.11.16.7 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, approved by the LAP 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 (26 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>EDSL 711</td>
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<td>Language Acquisition Issues 3</td>
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<tr>
<td>LING 601</td>
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<td>Graduate Research Seminar 1</td>
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<td>LING 602</td>
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<td>Graduate Research Seminar 2</td>
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<td>LING 619</td>
<td>3</td>
<td>Experimental Linguistics: Foundations</td>
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<td>LING 631</td>
<td>3</td>
<td>Phonology 3</td>
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<tr>
<td>LING 660</td>
<td>3</td>
<td>Semantics 3</td>
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<td>LING 671</td>
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<td>Syntax 3</td>
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<td>LING 706</td>
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<td>Ph.D. Evaluation 1</td>
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<td>LING 710</td>
<td>2</td>
<td>Language Acquisition Issues 2</td>
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<tr>
<td>PSYC 709</td>
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<tr>
<td>SCSD 712</td>
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</table>

Note: LING 706 and LING 707 must be completed before proceeding to thesis research.

Complementary Courses (9 credits)

3 credits of graduate-level statistics from courses such as: EDPE 676, EDPE 682, PSYC 650, PSYC 651; 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 6 credits selected from the following list; at least one course must be outside the Department of Linguistics:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Description</th>
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<tr>
<td>EDSL 620</td>
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<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
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<td>EDSL 624</td>
<td>3</td>
<td>Educational Sociolinguistics</td>
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<td>Classroom-Centred Second Language Research</td>
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<td>EDSL 629</td>
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<td>EDSL 632</td>
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<td>Second Language Literacy Development</td>
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<td>LING 590</td>
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<td>Language Acquisition and Breakdown</td>
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<td>LING 620</td>
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<td>Experimental Linguistics: Methods</td>
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<td>LING 651</td>
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<td>Topics in Acquisition of Phonology</td>
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<td>LING 655</td>
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<td>Theory of L2 Acquisition</td>
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<tr>
<td>LING 722</td>
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<td>LING 751</td>
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<td>LING 752</td>
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<td>Advanced Seminar: Experimental 2</td>
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<td>Methods: Developmental Psycholinguistics</td>
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<td>PSYC 734</td>
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<td>Developmental Psychology and Language</td>
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<td>PSYC 736</td>
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<td>SCSD 619</td>
<td>(3)</td>
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<td>SCSD 632</td>
<td>(3)</td>
<td>Phonological Disorders: Children</td>
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<td>SCSD 633</td>
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<td>Language Development</td>
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<td>SCSD 637</td>
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<td>Developmental Language Disorders 1</td>
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<td>SCSD 643</td>
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<tr>
<td>SCSD 652</td>
<td>(3)</td>
<td>Advanced Research Seminar 1</td>
</tr>
<tr>
<td>SCSD 653</td>
<td>(3)</td>
<td>Advanced Research Seminar 2</td>
</tr>
</tbody>
</table>

15.11.17 Mathematics and Statistics

15.11.17.1 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.math.mcgill.ca

15.11.17.2 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 Category; Theory and Logic; Geometric Group Theory; Algebraic Geometry; Discrete Mathematics; Mathematical Physics; Analysis and its Applications; Differential Geometry; Number Theory; Applied Mathematics; Differential Equations; and Probability and 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 website (www.math.mcgill.ca) provides extensive information on the Department and its facilities, including the research activities and the research interests of individual faculty members. It also provides detailed information, supplementary to this eCalendar, concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.
Students are urged to consult the website (www.math.uqam.ca/ISM) of the Institut des Sciences Mathématiques (ISM), 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 the eCalendar under Faculties & Schools > Faculty of Arts > Graduate > Academic Programs > Mathematics and Statistics.

### section 15.11.17.5: 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 (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

### section 15.11.17.6: 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 (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

**Master of Science (M.Sc.) Programs in Mathematics and Statistics**

Detailed program requirements for the following M.Sc. programs are found in the eCalendar under Faculties & Schools > Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics.

### section 27.11.7.5: 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 (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

### section 27.11.7.6: 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 27.11.7.7: Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and 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. Please visit our website for more information: www.cs.mcgill.ca/prospective-students/graduate/msc_cse_option.

### section 27.11.7.8: 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 (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

**Ph.D. Programs in Mathematics and Statistics**

### section 15.11.17.7: 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 15.11.17.8: 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.
15.11.17.3 Mathematics and Statistics Admission Requirements and Application Procedures

15.11.17.3.1 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.

15.11.17.32 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

15.11.17.3.2.1 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 the website at www.math.mcgill.ca/students/graduate/application.

15.11.17.3.3 Application Deadlines

The application deadlines listed here 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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<tr>
<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: Jan. 15</td>
<td>Fall: Same as Canadian/International</td>
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<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.17.4 Mathematics and Statistics Faculty

Chair
Jacques Hurtubise

Graduate Program Director
Russell Steele

Emeritus Professors
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.(Tor.)
Jal R. Choksi; B.A.(Cant.), Ph.D.(Manc.)
Emeritus Professors

Kohur N. GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)
Joachim Lambek; M.Sc., Ph.D.(McG.), F.R.S.C. (Peter Redpath Emeritus Professor of Pure Mathematics)
Michael Makkai; M.A., Ph.D.(Bud.) (Peter Redpath 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.)
William O.J. Moser; B.Sc.(Manit.), M.A.(Minn.), Ph.D.(Tor.)
Karl Peter Russell; Vor.Dip.(Hamburg), Ph.D.(Calif.)
Georg Schmidt; B.Sc.(Natal), M.Sc.(S. Af.), Ph.D.(Stam.)
Vanamamalai Seshadri; B.Sc, M.Sc.(Madr.), Ph.D.(Okl.)
George P.H. Styan; M.A., Ph.D.(Col.)
John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)

Professors

William J. Anderson; B.Eng., Ph.D.(McG.)
Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. (James McGill Professor)
Stephen W. Drury; M.A., Ph.D.(Cant.)
Christian Genest; BSp.Sc.(UQAC), M.Sc.(Vermont), Ph.D.(Br. Col.)
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.) (William Dawson Scholar)
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)
Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)
F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.) (James McGill Professor)
David A. Stephens; B.Sc., Ph.D.(Nott.)
John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT) (William Dawson Scholar)
Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.)
David Wolfson; B.Sc., M.Sc.(Natal), Ph.D.(Purd.)
Jian-Ju Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Rensselaer Poly.)

Associate Professors

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)
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)
Rustam Choksi; B.Sc.(Tor.) S.M., Ph.D.(Brown)
Antony R. Humphries; B.A., M.A.(Camb.), Ph.D.(Bath)
Wilbur Jonsson; M.Sc.(Manit.), Dr.Rer.Nat.(Tübingen)
Ivo Klemes; B.Sc.(Tor.), Ph.D.(Calif. Tech.)
James G. Loveys; B.A.(St. Mary's), M.Sc., Ph.D.(S. Fraser)
Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)
Neville G.F. Sancho; B.Sc., Ph.D.(Belf.)
Robert Seiringer; Dip, Ph.D.(Vienna)
### Associate Professors
- Russell Steele; B.S., M.S.(Carn. Mell), Ph.D.(Wash.)
- Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT) *(joint appt. with Computer Science)*

### Assistant Professors
- Abbas Khalili; Ph.D.(Wat.)
- Jean-Christophe Nave; B.Sc., Ph.D.(Calif., Santa Barbara)
- Gantumur Tsogtgerel; Ph.D.(Utrecht)
- Johannes Walcher; Dip, Ph.D.(ETH Zurich)

### Associate Members
- Xiao-Wen Chang *(Computer Science)*
- Luc P. Devroye *(Computer Science)*
- Pierre R.L. Dutilleul *(Plant Science)*
- Eliot Fried *(Mechanical Engineering)*
- Leon Glass *(Physiology)*
- George Haller *(Engineering)*
- James A. Hanley *(Epidemiology and Biostatistics)*
- Hamed Hatami *(Computer Science)*
- Lawrence Joseph *(Epidemiology and Biostatistics)*
- Anmar Khadra *(Physiology)*
- Michael Mackey *(Physiology)*
- Erica Moodie *(Epidemiology and Biostatistics)*
- Lawrence A. Mysak *(Atmospheric and Oceanic Sciences)*
- Christopher Paige *(Computer Science)*
- Prakash Panangaden *(Computer Science)*
- Robert Platt *(Epidemiology and Biostatistics)*
- James O. Ramsay *(Psychology)*
- George Alexander Whitmore *(Management)*
- Christina Wolfson *(Epidemiology and Biostatistics)*

### Adjunct Professors
- Vasek Chvatal; Ph.D.(Wat.)
- Donald A. Dawson; B.Sc., M.Sc.(McG.), Ph.D.(MIT)
- Martin Gander; M.S.(ETH Zurich), M.S., Ph.D.(Stan.)
- Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)
- Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)
- Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Uni.), Ph.D.(Kanazawa)
- Alexei Miasnikov; M.Sc.(Novosibirsk), Ph.D., Dr. of Sc.(Lenin.)
- M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.
- Vladimir Remeslennikov; M.Sc.(Perm, Russia), Ph.D.(Novosibirsk)
- Robert A. Seely; B.Sc.(McG.), Ph.D.(Cant.)

### Faculty Lecturers
- José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)
**Faculty Lecturers**

H. Hahn; Ph.D.(Ill.-Urbana-Champaign)
Axel Hundemer; M.Sc., Ph.D.(Munich)
Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)

**15.11.17.5 Master of Arts (M.A.); Mathematics and Statistics (Thesis) (45 credits)**

**Thesis Courses (24 credits)**

<table>
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<tr>
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**Complementary Courses (21 credits)**

At least 6 approved graduate courses, at the 500, 600 or 700 level, of 3 credits or more each.

**15.11.17.6 Master of Arts (M.A.); Mathematics and Statistics (Non-Thesis) (45 credits)**

**Research Project (16 credits)**

<table>
<thead>
<tr>
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<tr>
<td>MATH 641</td>
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<td>Project 2</td>
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</table>

**Complementary Courses (29 credits)**

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

**15.11.17.7 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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<td>MATH 700</td>
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<td>Ph.D. Preliminary Examination Part B</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**

Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

**15.11.17.8 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>
<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>
</tbody>
</table>
Complementary Courses (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

15.11.18 Philosophy

15.11.18.1 Location

Department of Philosophy
Leacock Building, 9th floor
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada

Telephone: 514-398-6060
Fax: 514-398-7148
Email: info.philosophy@mcgill.ca
Website: www.mcgill.ca/philosophy

15.11.18.2 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.

Students with an adequate undergraduate training in philosophy 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 adequate undergraduate training in philosophy to be one that furnishes a student with:

1. A general knowledge of the history of Western Philosophy: Greek, Medieval, and 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.

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 15.11.18.5: 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. A minimum of 45 credits is required, including the thesis. Students graduate with a master's degree from the faculty of their base discipline (M.A., M.Sc., or LL.M.) with a specialization in bioethics.

section 15.11.18.6: 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 15.11.18.7: 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 15.11.18.8: 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.

15.11.18.3 Philosophy Admission Requirements and Application Procedures

15.11.18.3.1 Admission Requirements

Ph.D.

Students with an Honours B.A. degree in Philosophy, or the equivalent, are normally admitted to the Ph.D. program directly at the Ph.D. 1 level. 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. Applicants to graduate studies whose mother tongue is not English are strongly encouraged to submit scores of the Graduate Record Examination. Applicants to graduate studies whose mother tongue is not English are strongly encouraged to submit scores of the Graduate Record Examination. Students 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.
15.11.18 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

15.11.18.3 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)

15.11.18.3 Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Contact the Department</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.18.4 Philosophy Faculty

**Chair**
D. Davies

**Emeritus Professors**
M.A. Bunge; Ph.D.(LaPlata), F.R.S.C. (*John Frothingham Emeritus Professor of Logic and Metaphysics*)
J. McGillvray; B.A.(Carleton Coll.), Ph.D.(Yale)
C. Normore; B.A.(McG.), M.A., Ph.D.(Tor.) (*William C. Macdonald Emeritus Professor of Moral Philosophy*)
D. Norton; M.A.(Claremont), Ph.D.(Calif.), F.R.S.C. (*William C. Macdonald Emeritus Professor of Moral Philosophy*)
C. Taylor; M.A., D.Phil.(Oxf.), F.R.S.C.

**Professors**
D. Davies; B.A.(Oxf.), M.A.(Manit.), Ph.D.(W. Ont.)
G. DiGiovanni; B.A., M.A., S.T.B., Ph.D.(Tor.)
M. Deslauriers; B.A.(McG.), M.A., Ph.D.(Tor.)
M. Hallett; B.Sc., Ph.D.(Lond.) (*John Frothingham Professor of Logic and Metaphysics*)
S. McCall; B.A.(McG.), B.Phil., D.Phil.(Oxf.)

**Associate Professors**
A. Al-Saji; M.A.(Louvain), Ph.D.(Emory)
R.P. Buckley; Ph.D.(Louvain)
E. Carson; M.A.(McG.), Ph.D.(Harv.)
G. Fiasse; B.A., M.A., Ph.D.(Louvain) (*joint appt. with Religious Studies*)
C. Fraenkel; B.A., M.A., Ph.D.(Free Univ., Berlin) (*William Dawson Scholar*), *joint appt. with Jewish Studies*)
I. Gold; B.A., M.A.(McG.), Ph.D.(Princ.) (*joint appt. with Psychiatry*)
## Associate Professors

I. Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (*joint appt. with McGill School of Environment*)

A. Laywine; B.A.(Ott.), M.A.(Montr.), Ph.D.(Chic.)

E. Lewis; B.A.(Cornell), Ph.D.(Ill.-Chic.)

S. Menn; M.A., Ph.D.(Chic.), M.A., Ph.D.(Johns Hop.)

G. Mikkelsen; M.S., Ph.D.(Chic.) (*joint appt. with McGill School of Environment*)

A. Reisner; B.A.(Middlebury), M.A.(Brist.), D.Phil.(Oxf.)

H. Sharp; A.B.(Occidental), M.A.(Binghampton), Ph.D.(Penn.)

N. Stoljar; B.A., L.L.B.(Syd.), Ph.D.(Princ.) (*joint appt. with Social Studies of Medicine*)

S. Stroud; A.B.(Harv.), Ph.D.(Princ.)

## Assistant Professors

M. Blome-Tillmann; B.Phil., D.Phil.(Oxf.)

D. Schlimm; M.Sc.(TU Darmstadt), M.Sc., Ph.D.(Carn. Mell)

K. Voigt; B.Phil, M.Phil, D.Phil.(Oxf.)

## Associate Professor (part-time)

K. Arvanitakis (*Psychiatry*)

## Associate Members

A. Abizadeh (*Political Science*)

B. Gillon (*Linguistics*)

J. Levy (*Political Science*)

## Adjunct Professors

S. Davis (Car.)

S.-J. Hoffmann (Dawson Coll.)

I. Macdonald (Montr.)

## 15.11.18.5 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 (6 credits)

Choose two of the following courses:

- **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.
15.11.18.6 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 551</td>
<td>3</td>
<td>Seminar: Ancient Philosophy 2</td>
</tr>
<tr>
<td>PHIL 556</td>
<td>3</td>
<td>Seminar: Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 661</td>
<td>3</td>
<td>Sem: 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 2 courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 534</td>
<td>3</td>
<td>Seminar: Ethics</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 2 courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 507</td>
<td>3</td>
<td>Seminar: Cognitive Science</td>
</tr>
<tr>
<td>PHIL 606</td>
<td>3</td>
<td>Seminar: Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 610</td>
<td>3</td>
<td>Seminar on Advanced Logic 2</td>
</tr>
<tr>
<td>PHIL 611</td>
<td>3</td>
<td>Seminar: Philosophy of Logic and Mathematics</td>
</tr>
<tr>
<td>PHIL 615</td>
<td>3</td>
<td>Seminar: Philosophy of Language</td>
</tr>
<tr>
<td>PHIL 619</td>
<td>3</td>
<td>Seminar: Epistemology</td>
</tr>
<tr>
<td>PHIL 621</td>
<td>3</td>
<td>Seminar: Metaphysics</td>
</tr>
<tr>
<td>PHIL 670</td>
<td>3</td>
<td>Seminar: Contemporary Analytic Philosophy</td>
</tr>
</tbody>
</table>
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.

**15.11.18.7 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
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<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>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>
</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 of two courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 551</td>
<td>(3)</td>
<td>Seminar: Ancient Philosophy 2</td>
</tr>
<tr>
<td>PHIL 556</td>
<td>(3)</td>
<td>Seminar: Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 661</td>
<td>(3)</td>
<td>Sem: 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>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PHIL 534</td>
<td>(3)</td>
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<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>
</tbody>
</table>
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 507 (3) Seminar: Cognitive Science
- 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

Minimum of two courses from the following:

- PHIL 507 (3) Seminar: Cognitive Science
- 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.

**15.11.18.8 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)**

- PHIL 607 (6) Pro-Seminar 1
- PHIL 682 (6) Pro-Seminar 3
- PHIL 685 (3) Fundamentals of Logic
- PHIL 690 (3) Candidacy Paper
- WMST 601 (3) Feminist Theories and Methods
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 551</td>
<td>(3)</td>
<td>Seminar: Ancient Philosophy 2</td>
</tr>
<tr>
<td>PHIL 556</td>
<td>(3)</td>
<td>Seminar: Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 661</td>
<td>(3)</td>
<td>Sem: 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 534</td>
<td>(3)</td>
<td>Seminar: Ethics</td>
</tr>
<tr>
<td>PHIL 542</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>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 507</td>
<td>(3)</td>
<td>Seminar: Cognitive Science</td>
</tr>
<tr>
<td>PHIL 606</td>
<td>(3)</td>
<td>Seminar: Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 610</td>
<td>(3)</td>
<td>Seminar on Advanced Logic 2</td>
</tr>
<tr>
<td>PHIL 611</td>
<td>(3)</td>
<td>Seminar: Philosophy of Logic and Mathematics</td>
</tr>
<tr>
<td>PHIL 615</td>
<td>(3)</td>
<td>Seminar: Philosophy of Language</td>
</tr>
<tr>
<td>PHIL 619</td>
<td>(3)</td>
<td>Seminar: Epistemology</td>
</tr>
<tr>
<td>PHIL 621</td>
<td>(3)</td>
<td>Seminar: Metaphysics</td>
</tr>
<tr>
<td>PHIL 670</td>
<td>(3)</td>
<td>Seminar: Contemporary Analytic Philosophy</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>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 501</td>
<td>(3)</td>
<td>Advanced Topics 1</td>
</tr>
<tr>
<td>WMST 513</td>
<td>(3)</td>
<td>Gender, Race and Science</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.

**15.11.19 Political Science**

**15.11.19.1 Location**

Department of Political Science  
Stephen Leacock Building, Room 414  
855 Sherbrooke Street West  
Montreal QC H3A 2T7  
Canada

Telephone: 514-398-4800  
Fax: 514-398-1770  
Website: [www.mcgill.ca/politicalscience](http://www.mcgill.ca/politicalscience)

**15.11.19.2 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 Social Statistics, 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, and Identity Politics. For a full list of our affiliated research centres and institutes, please consult our website: [www.mcgill.ca/politicalscience/centres](http://www.mcgill.ca/politicalscience/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 15.11.19.5: 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 15.11.19.6: 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/option](http://www.mcgill.ca/isid/teaching-programs/graduate/option).

**section 15.11.19.7: 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 15.11.19.8: 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 15.11.19.9: 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/option.

section 15.11.19.10: 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, broadly understood. Students enter through one of the participating departments and must meet the requirements of that unit. Students will take an interdisciplinary 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 15.11.19.11: 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 www.mcgill.ca/igsf/programs/gws.

section 15.11.19.12: Master of Arts (M.A.); Political Science (Non-Thesis) — Social Statistics (45 credits)

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 15.11.19.13: 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/recentplacements.

section 15.11.19.14: 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 (see www.mcgill.ca/igsf). 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.

15.11.19.3 Political Science Admission Requirements and Application Procedures

15.11.19.31 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 program 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 and some previous political science coursework could be applied to the requirements of the program, provided that it did not count toward any other degree.
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. See [www.ets.org/gre](http://www.ets.org/gre) for more information on registering for the test. 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 600 on the paper-based test (or 100 on the Internet-based test, with each component score not less than 20) is required for admission. Please use the codes McGill 0935 – Political Science 89 when writing the TOEFL exam. See [www.ets.org/toefl](http://www.ets.org/toefl) for more information on registering for the test. 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 for admission in the Fall).

For more information, consult the following websites: [www.ets.org/gre](http://www.ets.org/gre) and [www.ets.org/toefl](http://www.ets.org/toefl).

**1511.1932 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 section 5.3: Application Procedures for detailed application procedures.

**1511.1932 Additional Requirements**
The items and clarifications below are additional requirements set by this department:

- Personal Statement – one page
- Writing Sample – Ph.D. only
- GRE – required for applications to the Ph.D.

**1511.1933 Application Deadlines**
The application deadlines listed here are set by the Political Science 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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](http://www.mcgill.ca/politicalscience/grad/gradformsdocs).

**1511.194 Political Science Faculty**

**Chair**
Hudson Meadwell

**Director of Graduate Program**
Erik Kuhonta

**Emeritus Professors**
Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)
Blema Steinberg; B.A.(McG.), M.A.(Cornell), Ph.D.(McG.)

**Professors**
Mark R. Brawley; B.A., M.A., Ph.D.(Calif.-LA)
Michael Brecher; B.A.(McG.), M.A., Ph.D.(Yale), F.R.S.C. (R.B. Angus Professor of Economics and Political Science) (on leave Winter 2015)
Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)
Elisabeth Gidengil; B.A.(Lond.), M.A.(NYU), Ph.D.(McG.) (on leave Winter 2015)
**Professors**
Antonia Maioni; M.A.(Car.), Ph.D.(N’western)
Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)
Philip Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.)
T. V. Paul; B.A., M.A.(Kerala), M.Phil.(J. Nehru U.), M.A., Ph.D.(Calif.-LA) *(James McGill Professor)*
Filippo Sabetti; B.A.(McM.), Ph.D.(Ind.)
Richard Schultz; B.A.(York), M.A.(Manc.), Ph.D.(York) *(James McGill Professor)*
Harold M. Waller; M.S.(N’western), Ph.D.(G’town)

**Associate Professors**
Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.) *(on leave Fall 2014)*
Éric Belanger; B.A., M.A.(Laval), Ph.D.(Montr.)
Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)
Erik Kuhonta; B.A.(Penn.), M.A.(Cornell), Ph.D.(Stan.)
Jacob Levy; A.B.(Brown), 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)*
Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) *(William Dawson Scholar) (on leave 2014–2015)*
Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.)
Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.) *(on leave 2014–2015)*
Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)
Christina Tarnopolsky; B.A.(Tor.), M.A., Ph.D.(Chic.) *(on leave Fall 2014)*

**Assistant Professors**
Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin)
Victor Muñiz-Fraticelli; M.A., Ph.D.(Chic.) *(on leave 2014–2015)*
Fernando Nunez-Mietz; B.A.(Univ. de San Andrés), M.A., Ph.D.(Ohio St.)
Maria Popova; B.A.(Dart.), Ph.D.(Harv.) *(on leave 2014–2015)*
Sven-Oliver Proksch; Diplom(Konstanz), M.A.(Rutg.), Ph.D.(Calif.-LA)
William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)
Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)
Yves Winter; B.Sc.(LSE), Diplom(Paris X Nanterre), M.A., Ph.D.(Calif., Berk.)

**15.11.195 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.

<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>
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</table>

**Required Course (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 691</td>
<td>(6)</td>
<td>Bibliographic Methods 1</td>
</tr>
</tbody>
</table>
Complementary Courses (15 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

- POLI 612 (3) Research Design and Empirical Methods
- 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.

15.11.19.6 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 Design and Empirical Methods

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 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.

15.11.19.7 Master of Arts (M.A.); Political Science (Thesis) — European 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)**

- POLI 659 (3) Interdisciplinary Seminar in European Studies
- 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 Design and Empirical Methods

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

3-6 credits from the following group of courses on European politics:

- POLI 619 (3) Immigrants / Refugees / Minorities
- POLI 628 (3) Comparative Politics
- POLI 629 (3) Post-Communist Transformations
- POLI 630 (3) Topics in European Politics
- POLI 639 (3) Politics of Developed Areas
- POLI 651 (3) The EU and Political Integration
- POLI 680 (3) Social Change/Advanced Industrialized Democracies

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.

15.11.19.8 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 Design and Empirical Methods

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.

15.11.19.9 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:

POLI 612  (3)  Research Design and Empirical Methods

or a suitable more advanced 500- or 600-level course.

One of the following courses:

POLI 561  (3)  Seminar: Political Theory
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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>

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.

### Master of Arts (M.A.); Political Science (Non-Thesis) — European Studies (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>POLI 693</td>
<td>3</td>
<td>M.A. Research Proposal</td>
</tr>
<tr>
<td>POLI 694</td>
<td>3</td>
<td>Research Preparation 1</td>
</tr>
<tr>
<td>POLI 695</td>
<td>3</td>
<td>Research Preparation 2</td>
</tr>
<tr>
<td>POLI 696</td>
<td>3</td>
<td>Research Preparation 3</td>
</tr>
<tr>
<td>POLI 699</td>
<td>6</td>
<td>Master's Research Essay</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>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 (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 612</td>
<td>3</td>
<td>Research Design and Empirical Methods</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 Code</th>
<th>Credits</th>
<th>Course Title</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>

6-9 credits from the following group of courses on European Politics:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</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>
</tbody>
</table>
POLI 680 (3) Social Change/Advanced Industrialized Democracies

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.

**15.11.19.11 Master of Arts (M.A.); Political Science (Non-Thesis) — Gender and Women's Studies (45 credits)**

### Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 693</td>
<td>(3)</td>
<td>M.A. Research Proposal</td>
</tr>
<tr>
<td>POLI 694</td>
<td>(3)</td>
<td>Research Preparation 1</td>
</tr>
<tr>
<td>POLI 695</td>
<td>(3)</td>
<td>Research Preparation 2</td>
</tr>
<tr>
<td>POLI 696</td>
<td>(3)</td>
<td>Research Preparation 3</td>
</tr>
<tr>
<td>POLI 699</td>
<td>(6)</td>
<td>Master's Research Essay</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 691</td>
<td>(6)</td>
<td>Bibliographic Methods 1</td>
</tr>
<tr>
<td>WMST 601</td>
<td>(3)</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

### Complementary Courses (18 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 Design and Empirical Methods</td>
</tr>
</tbody>
</table>

or a suitable more advanced course at the graduate level.

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>

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:

<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 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.
## Master of Arts (M.A.); Political Science (Non-Thesis) — Social Statistics (45 credits)

### Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 693</td>
<td>3</td>
<td>M.A. Research Proposal</td>
</tr>
<tr>
<td>POLI 694</td>
<td>3</td>
<td>Research Preparation 1</td>
</tr>
<tr>
<td>POLI 695</td>
<td>3</td>
<td>Research Preparation 2</td>
</tr>
<tr>
<td>POLI 696</td>
<td>3</td>
<td>Research Preparation 3</td>
</tr>
<tr>
<td>POLI 699</td>
<td>6</td>
<td>Master's Research Essay</td>
</tr>
</tbody>
</table>

### Required Course (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 691</td>
<td>6</td>
<td>Bibliographic Methods 1</td>
</tr>
</tbody>
</table>

### Complementary Courses (21 credits)

3 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 688</td>
<td>3</td>
<td>Seminar on Social Statistics</td>
</tr>
<tr>
<td>POLI 688</td>
<td>3</td>
<td>Seminar on Social Statistics</td>
</tr>
<tr>
<td>SOCI 688</td>
<td>1.5</td>
<td>Social Statistics 1</td>
</tr>
</tbody>
</table>

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 Design and Empirical Methods</td>
</tr>
</tbody>
</table>

or a suitable more advanced course.

One of the following:

<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>

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.

## 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

<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>
</tbody>
</table>
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 Design and Empirical Methods
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 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, 600, or 700 level) in advanced statistical methods.

15.11.19.14 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>Notes</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:

POLI 612 (3) Research Design and Empirical Methods

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 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 level or higher) in advanced statistical methods.

15.11.20 Psychology

15.11.20.1 Location

Department of Psychology
Stewart Biological Sciences Building, Room W8/33A
1205 Dr. Penfield Avenue
Montreal QC H3A 1B1
Canada

Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: gradsec@ego.psych.mcgill.ca
Website: www.psych.mcgill.ca

15.11.20.2 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; 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, and 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 that MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.)

Students interested in neuroscience may apply to graduate programs in the Integrated Program in Neuroscience (IPN) department and work with an IPN supervisor from the Department of Psychology. For information about programs offered by the IPN department, see the eCalendar under Faculty of Medicine > Graduate > Academic Programs > section 22.11.14: Neuroscience (Integrated Program in) and www.mcgill.ca/ipn.

For full information about all programs and financial aid, and for application forms, contact the Graduate Program Coordinator, Department of Psychology.

Ph.D. Option in Language Acquisition (LAP)
Information about this option is available from the Department and at: "www.psych.mcgill.ca/1ap.html."

**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."

**Faculty of Arts > Graduate > Academic Programs > Psychology > section 15.11.20.5: 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.

**Faculty of Science > Graduate > Academic Programs > Psychology > section 27.11.9.5: 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 15.11.20.6: Doctor of Philosophy (Ph.D.); Psychology**

Please contact the Department for more information about this program.

**section 15.11.20.7: 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 15.11.20.8: 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.

**15.11.20.3 Psychology Admission Requirements and Application Procedures**

**15112031 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.

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 with little or no background in psychology are not required to submit scores on the subject component of the Graduate Record Examination (GRE). We highly recommend to all other students to submit scores on the subject component of the GRE. If you did not take the GRE subject test and are accepted into the program, you may be asked to take it in April. All applicants must take the GRE if they have studied in an English-speaking university. Canadians who have not studied in an English institution are not required to submit the GRE.

**15112032 Application Procedures**

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

See **section 5.3: Application Procedures** for detailed application procedures.

**15112021 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) – All applicants must take the GRE if they have studied in an English-speaking university. Canadians who have not studied in an English institution are not required to submit the GRE.
15.11.20.3 Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Dec. 15</td>
<td>Fall: Dec. 15</td>
<td>Fall: Dec. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

15.11.20.4 Psychology Faculty

**Chair**

J. Lydon

**Graduate Program Director**

D. Titone

**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)
- V. Douglas; B.A.(Qu.), M.A., M.S.W., Ph.D.(Mich.)
- K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)
- F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)
- 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.)
- Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)
- 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)
- N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

**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.)
- R. Koestner; B.A., Ph.D.(Roch.)
- 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*)
- D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)
- 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*)
### Professors
- M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)
- R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)
- T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)
- M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia) *Canada Research Chair in Behavioral Health*
- D.M. Taylor; M.A., Ph.D.(W. Ont.)
- D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

### Associate Professors
- E.S. Balaban; B.A.(Mich. St.), Ph.D.(Rockefeller)
- Y. Chudasama; B.Sc., Ph.D.(Cardiff)
- H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)
- B. Knauper; Dr. phil.(Germany, Mannheim)
- M.J. Mendelson; B.Sc.(McG.), A.M., Ph.D.(Harv.)
- G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) *William Dawson Scholar*
- K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)
- M. Pompeiana; M.D., Ph.D.(Pisa)
- Z. Rosberger; B.Sc.(McG.), M.A., Ph.D.(C'dia) *Part-time*
- D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton) *Canada Research Chair in Cognitive Neuroscience of Language and Memory*

### Assistant Professors
- J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)
- I. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) *Part-time*
- J. Britt; B.A.(Colo.), Ph.D(Balt.)
- M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)
- F. Gu; B.Sc.(Sing.), M.Sc., Ph.D.(Kansas)
- J. Ristic; B.A., M.A., Ph.D.(Br. Col.) *William Dawson Scholar*
- H.-T. Yu; B.S.(Taiwan), M.S., M.A., Ph.D.(Ill.-Urbana-Champaign)

### Lecturer
- P. Carvajal

### 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, J. Pruessner, A. Raz

### Adjunct Professors

### Part-Time Appointments
- J. LeGallais, J. Russell, M. Sinai
Professional CAS

R. Amsel, Associate Professor
L. Koski, Assistant Professor
S. Stotland, Assistant Professor

15.11.20.5 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>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 690</td>
<td>15</td>
<td>Masters Research 1</td>
</tr>
<tr>
<td>PSYC 699</td>
<td>12</td>
<td>Masters Research 2</td>
</tr>
</tbody>
</table>

Required Courses (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 601</td>
<td>6</td>
<td>Master's Comprehensive</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>
<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>

15.11.20.6 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 (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 701</td>
<td>6</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

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 degree then the following courses are also required:

<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>
</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>
15.11.20.7 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, approved by the LAP 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 (14 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 711</td>
<td>(2)</td>
<td>Language Acquisition Issues 3</td>
</tr>
<tr>
<td>LING 710</td>
<td>(2)</td>
<td>Language Acquisition Issues 2</td>
</tr>
<tr>
<td>PSYC 701</td>
<td>(6)</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
<tr>
<td>PSYC 709</td>
<td>(2)</td>
<td>Language Acquisition Issues 1</td>
</tr>
<tr>
<td>SCSD 712</td>
<td>(2)</td>
<td>Language Acquisition Issues 4</td>
</tr>
</tbody>
</table>

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 degree then the following courses are also required:

<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>
</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>

Complementary Courses (9 credits)

One graduate-level course in statistics, such as:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course 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>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.

Two courses selected from the following list, at least one course must be outside the Department of Psychology:

<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>Critical 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>Classroom-Centred Second Language 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
PSYC 734 (3) Developmental Psychology and Language
PSYC 736 (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

15.11.20.8 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 (6) 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:

PSYC 650 (3) Advanced Statistics 1
PSYC 651 (3) Advanced Statistics 2
PSYC 660D1 (3) Psychology Theory
PSYC 660D2 (3) Psychology Theory

Complementary Course (3 credits)
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
15.11.21 Quebec Studies / Études sur le Québec

15.11.21.1 Location

Quebec Studies Program / Programme d'études sur le Québec
Ferrier Building, Room 332
840 Dr. Penfield Avenue
Montreal QC H3A 0G2
Canada

Telephone: 514-398-3960
Website: www.mcgill.ca/qcst

Director – TBA
Québec Studies Coordinator and Assistant to the Director – Stéphan Gervais

15.11.21.2 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.

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.

En 1963, le Programme d'études canadiennes-françaises fut créé à l'Université McGill. En collaboration avec les autres départements de l'Université, le programme a notamment pour but de développer la recherche sur divers aspects du Québec et du Canada français. Depuis 1992, l'appellation du programme a été modifiée pour celle de Programme d'études sur le Québec afin de refléter clairement les objectifs poursuivis.

Les activités du programme se concentrent au premier cycle. Les étudiants qui désirent poursuivre des études en vue de l'obtention d'une maîtrise ou d'un doctorat portant sur le Québec doivent s'adresser aux départements concernés.

Les étudiants dont les cours portent, en tout ou en partie, sur le Québec ou qui se spécialisent dans ce domaine, sont toutefois invités à se prévaloir des services du Programme d'études sur le Québec.

15.11.22 Social Studies of Medicine

15.11.22.1 Location

Department of Social Studies of Medicine
3647 Peel Street, 2nd Floor
Montreal QC H3A 1X1
Canada

Telephone: 514-398-6033
Fax: 514-398-1498
Email: dept.ssom@mcgill.ca
Website: www.mcgill.ca/ssom

15.11.22.2 About Social Studies of Medicine

The Department (SSOM) offers graduate studies in three programs:

- one in Medical Anthropology, given jointly with the Department of Anthropology;
- one in History of Medicine, given jointly with the Department of History and Classical Studies; and
- two in Medical Sociology, 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 Anthropology, History, or Sociology sections.

The Department (SSOM) is interdisciplinary, having 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.
section 15.11.10.13: Master of Arts (M.A.); History of Medicine (Non-Thesis) (45 credits)

The program requires the completion of 45 credits, composed of required courses, graduate seminars, plus a major research paper. The program is normally completed in three terms, or one calendar year.

section 15.11.24.8: Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (45 credits)

This includes 18 credits of coursework and a research thesis that is based on original research (30 credits).

section 15.11.24.12: Master of Arts (M.A.); Sociology (Non-Thesis) — Medical Sociology (45 credits)

This includes 27 credits of coursework and a research paper based on original research (18 credits).

Ph.D. Programs

For information on the doctoral programs, please refer to the appropriate Department – section 15.11.1: Anthropology, section 15.11.10: History and Classical Studies, or section 15.11.24: Sociology.

15.11.22.3 Social Studies of Medicine Admission Requirements and Application Procedures

15.11.22.3.1 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 15.11.1: Anthropology, section 15.11.10: History and Classical Studies, or section 15.11.24: Sociology.

15.11.22.3.2 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: www.mcgill.ca/anthropology/graduate/ma.

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: www.mcgill.ca/history/graduate/ma.

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: www.mcgill.ca/sociology/grad/admissions.

Ph.D. Programs

Please refer to the appropriate department: section 15.11.1: Anthropology, section 15.11.10: History and Classical Studies, or section 15.11.24: Sociology.

15.11.22.3.3 Application 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.

15.11.22.4 Social Studies of Medicine Faculty

Chair

Alberto Cambrosio
Emeritus Professor
Margaret Lock; B.Sc.(Leeds), M.A., Ph.D.(Calif., Berk.) (Marjorie Bronfman Professor Emerita in Social Studies in Medicine)

Professors
Alberto Cambrosio; M.Env.(Sher.), Ph.D.(Montr.)
Thomas Schlich; M.D.(Marburg), Ph.D.(Freiburg) (James McGill Professor in History of Medicine)
Andrea Tone; M.A., Ph.D.(Emory) (Canada Research Chair in the Social History of Medicine)
George Weisz; M.A., Ph.D.(SUNY), Dr. 3eme Cycle(Paris) (Cotton-Hannah Professor of the History of Medicine)
Allan Young; M.A.(Wash.), B.A., Ph.D.(Penn.) (Marjorie Bronfman Professor in Social Studies in Medicine)

Associate Professor
Faith E. Wallis; M.A., M.L.S.(McG.), Ph.D.(Tor.)

Assistant Professor
Tobias Rees; M.A.(Tübingen), Ph.D.(Calif., Berk.)

Associate Professor
Jonathan Kimmelman; M.A., Ph.D.(Yale) (Biomedical Ethics Unit)

Assistant Professors
Jennifer Fishman; M.A.(Calif., Irvine), Ph.D.(Calif.) (Biomedical Ethics Unit)
Nicholas King; M.A., Ph.D.(Harv.) (Biomedical Ethics Unit)

Adjunct Professor
Cornelius Borck; M.A., M.D.(Free Univ., Berlin), Ph.D.(Lond.)

15.11.23 Social Work

15.11.23.1 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

15.11.23.2 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.

The M.S.W. degree can be pursued via two options: thesis and non-thesis. Both options 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.

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.

Note: With respect to M.S.W. and Q.Y. programs, 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.

section 15.11.23.6: Master of Science, Applied (M.Sc.A.); Couple and Family Therapy (Non-Thesis) (60 credits)

The Master's program in Couple and Family Therapy is a full-time professional Master's program of 60 credits taken over five terms. Graduates of this program will qualify for two professional permits: the Couple and Family Therapist permit (Ordre des travailleurs sociaux et des therapeutes conjugaux et familiaux du Québec (OTSTCFQ)); and the Psychotherapist permit (Ordre des Psychologues du Québec (OPQ)). The high standards for admission, course requirements, and clinical supervision will produce highly trained graduates who will be desirable future employees with enhanced career and employment opportunities. Graduating from McGill University's Master of Science, Applied in Couple and Family Therapy will be an esteemed professional credential.

section 15.11.23.7: Master of Social Work (M.S.W.); Social Work (Thesis) (45 credits)

The M.S.W. Thesis option 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: Children and Families; Health and Social Care; or International and Community Development. 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 15.11.23.8: Master of Social Work (M.S.W.); Social Work (Non-Thesis) (45 credits)

The M.S.W. Non-Thesis option is designed for students who have a keen interest in developing an advanced intellectual understanding and a specialized set of practice skills in one of three areas: Children and Families; Health and Social Care; or International and Community Development. This program entails three semesters of full-time study that consist of coursework, professional education in a supervised field placement, and an independent study project. 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), or will have successfully completed the Qualifying year entry into the M.S.W. 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 15.11.23.9: 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.
section 15.11.23.10: Joint Master of Social Work (M.S.W.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) (132 credits)

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 option)/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.

section 15.11.23.11: Doctor of Philosophy (Ph.D.); Social Work (offered jointly by McGill and Université de Montréal)

As one of the top Ph.D. programs in Canada, the School of Social Work promotes leading scholarship on social policy and practice. Over the course of three to four years, working closely with their supervisor, students pursue 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 between one and two years to complete. McGill offers 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.

15.11.23.3 Social Work Admission Requirements and Application Procedures

15.11.23.31 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.

M.S.W. Program

Applicants who have successfully completed a B.S.W., with a minimum high B average (GPA 3.2/4.0), and who have completed coursework in statistics and in research methods at the undergraduate level within the last five years are admissible to the Master of Social Work program. Applicants are 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. program (non-thesis only) 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 prior coursework in Family Theory/Therapy (e.g., M.S.W. graduates or Counselling Psychology graduates with master's level family courses) to receive advanced credit for these courses and be eligible for Advance level entry (minimum of 45 credits) taken over three terms. Admission to the program will be inter-disciplinary, with candidates entering from related 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 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;
• relevance and availability of proposed research supervisor.

### 15112332 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 section 5.3: Application Procedures for detailed application procedures.

Applications will only be considered upon receipt of all required documents.

#### 151123321 Additional Requirements

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

- Qualifying year of study applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Statement of Interest for Social Work

- M.S.W. and Joint Program (M.S.W. & B.C.L./LL.B.) applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Plan of Study (non-thesis or thesis)

- M.Sc.A. applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Pre-requisite Form (using form provided)
  - Advanced Standing Form (using form provided)
  - Letter of Intent

- Ph.D. applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Research Proposal
  - Writing Sample
  - One-page Narrative
  - Statement of Availability

Details regarding these requirements can be found on the Department website at: [www.mcgill.ca/socialwork/prospective](http://www.mcgill.ca/socialwork/prospective).

### 15112333 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15 (for M.Sc.A. program: April 15)</td>
<td>Fall: Jan. 15 (for M.Sc.A. program: March 31)</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

### 15.11.23.4 Social Work Faculty

#### Director

Wendy Thomson

#### Professors

- Linda Davies; B.S.W., M.S.W.(McG.), Ph.D.(N. Lond. Poly.)
- Myriam Denov; B.A.(Tor.), B.S.W.(McG.), M.A.(Ott.), Ph.D.(Camb.)
- Wendy Thomson; B.S.W., M.S.W.(McG.), Ph.D.(Brist.)
### Professors

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.)

Estelle Hopmeyer; B.A., M.S.W.(McG.)

Nicole Ives; B.A.(Col.), M.S.W., Ph.D.(Penn.)

Julia Krane; B.A.(Ott.), B.S.W.(McG.), M.S.W., Ph.D.(Tor.)

Lucyna Lach; B.A., M.S.W., Ph.D.(Tor.)

Tamara Sussman; B.A., B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

### Assistant Professors

Sarilee Kahn; B.F.A.(Utah), M.P.H., M.S.W.(Col.), Ph.D.(NYU)

Heather MacIntosh; B.A., Ph.D.(Ott.)

David Rothwell; B.A.(Pitzer), M.S.W.(Tulane), Ph.D.(Hawaii)

Vadna Sinha; B.A.(Utah), M.A., Ph.D.(Northwestern)

### Faculty Lecturers

Karen Hetherington; B.A.(C'dia), M.A.(Montr.)

Marion Van Horn; B.A.(S. Fraser), B.S.W., M.S.W.(McG.)

### Coordinator of Field Education

Francine Granner; B.S.W., M.S.W.(McG.)

### Associate Coordinator of Field Education

Marilyn Rowell; B.S.W.(McG.)

### 15.11.23.5 Qualifying Year of Study (for Entry into the M.S.W.)

Applicants to the Qualifying year of study for entry into the M.S.W. program who have completed a bachelor's degree (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 four-year university degree) with a high B average (GPA 3.2/4.0), and have a minimum of one year of paid or volunteer professional social work or related experience, are eligible for consideration. Prior to entry, applicants must also have completed the following prerequisite courses within the last five years, achieving a minimum grade of B in each course:

- one 3-credit undergraduate Research Methods course in the social sciences;
- one 3-credit undergraduate Statistics course;
- three 3-credit (9 credits total) Social Science courses;
- one 3-credit undergraduate course in human development.

Applicants admitted to the Qualifying year are immersed, over two terms of full-time study only, in coursework and fieldwork. This full-time Qualifying year of study is comprised of 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. We accept applications to the Qualifying year 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](http://www.mcgill.ca/socialwork).
15.11.23.6 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 Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAFT 600</td>
<td>Couple and Family Therapy Pre-Practicum</td>
</tr>
<tr>
<td>CAFT 601</td>
<td>Diversity and Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 602</td>
<td>Advanced Assessment in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 603</td>
<td>Research Methods for Couple and Family Therapists</td>
</tr>
<tr>
<td>CAFT 604</td>
<td>Contemporary Issues in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 605</td>
<td>Advanced Family Treatment Across the Lifespan</td>
</tr>
<tr>
<td>CAFT 606</td>
<td>Internship 1 in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 607</td>
<td>Legal, Ethical and Professional Issues in C &amp; FT</td>
</tr>
<tr>
<td>CAFT 608</td>
<td>Human Development Across Lifespan: Couple &amp; Family Therapy</td>
</tr>
<tr>
<td>CAFT 609</td>
<td>Advanced Couple Therapy</td>
</tr>
<tr>
<td>CAFT 610</td>
<td>Biological Foundations of Behaviour for C&amp;FTs</td>
</tr>
<tr>
<td>CAFT 611</td>
<td>Internship 2 in Couple and Family Therapy</td>
</tr>
<tr>
<td>CAFT 612</td>
<td>Internship 3 in Couple and Family Therapy</td>
</tr>
<tr>
<td>SWRK 610</td>
<td>Family Treatment</td>
</tr>
<tr>
<td>SWRK 622</td>
<td>Understanding and Assessing Families</td>
</tr>
<tr>
<td>SWRK 623</td>
<td>Couple Counselling</td>
</tr>
<tr>
<td>SWRK 630</td>
<td>Adult Mental Health</td>
</tr>
</tbody>
</table>

Complementary Courses (3 credits)

from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPC 503</td>
<td>Human Sexuality: Professionals</td>
</tr>
<tr>
<td>SWRK 621</td>
<td>Seminar on Trauma and Resilience</td>
</tr>
<tr>
<td>SWRK 628</td>
<td>Violence against Women</td>
</tr>
<tr>
<td>SWRK 635</td>
<td>Advanced Clinical Seminar: Use of Self</td>
</tr>
<tr>
<td>SWRK 655</td>
<td>Seminar on Aging</td>
</tr>
<tr>
<td>SWRK 657</td>
<td>Seminar on Mental Health</td>
</tr>
<tr>
<td>SWRK 668</td>
<td>Living with Illness, Loss and Bereavement</td>
</tr>
<tr>
<td>SWRK 669</td>
<td>Disability and Rehabilitation</td>
</tr>
<tr>
<td>SWRK 670</td>
<td>Seminar on Caregiving</td>
</tr>
</tbody>
</table>

15.11.23.7 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 698</td>
<td>12</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>SWRK 699</td>
<td>15</td>
<td>Thesis Research 2</td>
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</table>

Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>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>
</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 (12 credits)

12 credits of SWRK 500- or 600-level courses; up to 6 credits in total may be taken outside the Department.

15.11.23.8 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</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<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</th>
<th>Credits</th>
<th>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 Department.

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. Students also have the option of taking equivalent research methodology courses offered in other departments to fulfill the research requirement. All students must secure the approval of their adviser prior to registration for such courses.
**15.11.23.9 Master of Social Work (M.S.W.); Social Work (Non-Thesis) — International Partner Program (45 credits)**

**Qualifying Period (summer) (9 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 350</td>
<td>3</td>
<td>Social Work Skills Laboratory</td>
</tr>
<tr>
<td>SWRK 353</td>
<td>3</td>
<td>Introduction to Practice</td>
</tr>
<tr>
<td>SWRK 485</td>
<td>3</td>
<td>Tutorial: Social Work Practice</td>
</tr>
</tbody>
</table>

- Program-specific Activities
- Intensive English

**Required Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRK 633*</td>
<td>3</td>
<td>Program Evaluation</td>
</tr>
<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.

**15.11.23.10 Joint Master of Social Work (M.S.W.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) (132 credits)**

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and LL.B. degrees for a total of 132 credits.

**Required - Social Work (30 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>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>
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<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 SWRK 500- or 600-level 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</th>
<th>Credits</th>
<th>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>2.5</td>
<td>Extra-Contractual Obligations/Torts</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
- PRV1 555 (3) Successions
- 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
- PRV4 556 (3) Wills and Estates
- 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 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 432 (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
19-25 credits
Students select the remaining 19-25 credits from among Faculty of Law offerings.

15112311 Doctor of Philosophy (Ph.D.); Social Work
(Of 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
SWRK 701 (0) Comprehensive Examination
SWRK 720 (3) Thought and Theory Development in Social Work
SWRK 721 (3) Advanced Integrative Seminar

Complementary Courses
One of the following courses:
SWRK 722 (3) Advanced Seminar: Social Work Intervention
SWRK 723 (3) Advanced Seminar on Social Policy

One of the following courses:
SWRK 724 (3) Advanced Research Methods and Analysis: Quantitative Data
SWRK 725 (3) Advanced Qualitative Research Methods and Data Analysis

One course in Social Work or a related discipline.
15.11.24 Sociology

15.11.24.1 Location

Department of Sociology
Stephen Leacock Building, Room 713
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada

Graduate Program and Admission Information:
Telephone: 514-398-6847
Fax: 514-398-3403
Email: graduate.sociology@mcgill.ca
Website: www.mcgill.ca/sociology

15.11.24.2 About Sociology

The Department offers training leading to the following degrees:

- 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 – Medical Sociology Option (Thesis and Non-Thesis) with the Social Studies of Medicine Department
- Master of Arts in Sociology – Population Dynamics Option (Non-Thesis)
- Master of Arts in Sociology – Social Statistics 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

We have particular strength in the following fields: states, nationalism, and development; economy and society; social inequality (class, ethnicity, and gender); deviance and social control; and health and society. 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. Fewer are offered at the Ph.D. level (see below). The Department houses the Social Statistics Unit. This has full access to the resources of StatsCan, with additional training for students.

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 15.11.24.5: 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 15.11.24.6: 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 15.11.24.7: 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 15.11.24.8: Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (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 15.11.24.9: 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 15.11.24.10: 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 15.11.24.11: 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.

section 15.11.24.12: Master of Arts (M.A.); Sociology (Non-Thesis) — Medical Sociology (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 15.11.24.13: Master of Arts (M.A.); Sociology (Non-Thesis) — Population Dynamics (45 credits)

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.

section 15.11.24.14: Master of Arts (M.A.); Sociology (Non-Thesis) — Social Statistics (45 credits)

This program complements the basic research training with the application of statistical methods to Statistics Canada data (or equivalent). It requires a statistics-based research paper that will normally flow out of a paper written for one of the graduate seminars. Comparable to an article in a professional journal, the paper ought to focus on a clearly defined research problem, demonstrating familiarity with the most important relevant scholarly work and the ability to carry out and organize the results of the research. The program is designed to be completed within twelve months.

Ph.D. Program Options

section 15.11.24.15: 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 15.11.24.16: 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 15.11.24.17: 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.

15.11.24.3 Sociology Admission Requirements and Application Procedures

15112431 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 Undergraduate eCalendar.

All applicants are asked to submit a writing sample. Applicants 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 567 on the paper-based test and 86 overall on the Internet-based test (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/apply/prepare/international/proficiency. International students can also contact International Student Services at 514-398-4349 for more information, or visit their website, www.mcgill.ca/internationalstudents.

Candiates 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.

Any 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 theoretical 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.).

15112432 Application Procedures

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

See section 5.3: 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.

15112432 Additional Requirements

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

• GRE
• 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

15112433 Application Deadlines

The application deadlines listed here 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></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan.</td>
<td>Fall: Jan.</td>
<td>15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td></td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td></td>
<td>Summer: 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.
## 15.11.24.4 Sociology Faculty

### Chair
Céline Le Bourdais

### Graduate Program Director
Elaine Weiner

### Emeritus Professors
Maurice Pinard; B.A., LL.L., M.A. (Montr.), Ph.D. (Johns Hop.), F.R.S.C.
Peta Tancred; B.A. (McG.), M.A. (Montr.), Ph.D. (LSE)

### Professors
Alberto Cambrosio; M.A. (Sher.), Ph.D. (Montr.) (Social Studies of Medicine)
Shelley Clark; B.A. (Virg.), M.A., Ph.D. (Princ.) (Canada Research Chair in Youth, Gender and Global Health) (Director, Centre on Population Dynamics)
John A. Hall; B.A. (Oxf.), M.A. (Penn. St.), Ph.D. (LSE) (James McGill Professor)
Céline Le Bourdais; B.Sc. (Montr.), B.Sc. (Laval), M.Sc. (Montr.), Ph.D. (Brown) (Canada Research Chair in Social Statistics and Family Change)
Anthony Masi; A.B. (Colgate), M.A., Ph.D. (Brown) (Provost)
Michael Smith; B.A. (Leic.), M.A., Ph.D. (Brown) (James McGill Professor)
Axel van den Berg; Kand. Doc. (Amster.), Ph.D. (McG.)
Morton Weinfield; B.A. (McG.), Ed.M., Ph.D. (Harv.)

### Associate Professors
Lucia Benaquisto; B.A. (SUNY, Albany), M.A., Ph.D. (Harv.) (on leave)
Jason Carmichael; B.A. (Ariz. St.), M.A., Ph.D. (Ohio St.)
Kathleen Fallon; B.A. (Calif.), M.A., Ph.D. (Ind.) (on leave)
Matthew Lange; B.A. (Carleton Coll.), M.A., Ph.D. (Brown)
Amélie Quesnel-Vallée; B.S., M.S. (Montr.), M.S., Ph.D. (Duke)
Steven L. Rytina; B.G.S., Ph.D. (Mich.) (on sabbatical 2014–2015)
Elaine Weiner; B.A. (Grinnell Coll.), M.A. (Flor.), Ph.D. (Mich.)

### Assistant Professors
Sarah Brauner-Otto; B.A. (Bates Coll.), M.S.W., Ph.D. (Mich.)
Aniruddha (Bobby) Das; B.A. (Delhi), M.A. (Delaware), Ph.D. (Chic.)
Poulami Roychowdhury; B.A. (Swarth.), M.A., Ph.D. (NYU)
Eran Shor; B.A., M.A. (Haifa), M.A., Ph.D. (Stony Brook) (William Dawson Scholar)
Thomas Soehl; M.A. (CUNY), M.P.A. (Harv.), M.A., Ph.D. (Calif.-LA)
Zoua Vang; B.A. (Penn.), M.A., Ph.D. (Harv.) (on leave Fall 2014)

### Associate Members
Gregory Baum (Religious Studies)
Jennifer Fishman (Social Studies of Medicine – Biomedical Ethics Unit)
Robert E. Whitley (Psychiatry)

## 15.11.24.5 Master of Arts (M.A.); Sociology (Thesis) (45 credits)

### Thesis Courses (30 credits)
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>SOCI 504</td>
<td>3</td>
<td>Quantitative Methods 1</td>
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<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>
</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 Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 505</td>
<td>3</td>
<td>Quantitative Methods 2</td>
</tr>
<tr>
<td>SOCI 506</td>
<td>3</td>
<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>
</tr>
<tr>
<td>SOCI 510</td>
<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>
</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>
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<tr>
<td>SOCI 520</td>
<td>3</td>
<td>Migration and Immigrant Groups</td>
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<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>
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<tr>
<td>SOCI 530</td>
<td>3</td>
<td>Sex and Gender</td>
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<tr>
<td>SOCI 535</td>
<td>3</td>
<td>Sociology of the Family</td>
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<tr>
<td>SOCI 538</td>
<td>3</td>
<td>Selected Topics in Sociology of Biomedical Knowledge</td>
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<tr>
<td>SOCI 545</td>
<td>3</td>
<td>Sociology of Population</td>
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<tr>
<td>SOCI 550</td>
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<td>Developing Societies</td>
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<td>SOCI 555</td>
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<td>Comparative Historical Sociology</td>
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<td>SOCI 560</td>
<td>3</td>
<td>Labour and Globalization</td>
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<tr>
<td>SOCI 565</td>
<td>3</td>
<td>Social Change in Panama</td>
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<tr>
<td>SOCI 571</td>
<td>3</td>
<td>Deviance and Social Control</td>
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<tr>
<td>SOCI 588</td>
<td>3</td>
<td>Biosociology/Biodemography</td>
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<td>SOCI 590</td>
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<td>Social Conflict and Violence</td>
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<td>SOCI 601</td>
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<td>Qualitative Research Methods 2</td>
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<td>SOCI 621</td>
<td>(3)</td>
<td>Fixed and Random Effects</td>
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<tr>
<td>SOCI 622</td>
<td>(3)</td>
<td>Event History Analysis</td>
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<td>SOCI 623</td>
<td>(3)</td>
<td>Latent Variable Models</td>
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<td>SOCI 624</td>
<td>(3)</td>
<td>Social Networks</td>
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<td>SOCI 631D1</td>
<td>(3)</td>
<td>Informing Social Policy with Canadian Data</td>
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<tr>
<td>SOCI 631D2</td>
<td>(3)</td>
<td>Informing Social Policy with Canadian Data</td>
</tr>
<tr>
<td>SOCI 688</td>
<td>(1.5)</td>
<td>Social Statistics 1</td>
</tr>
<tr>
<td>SOCI 689</td>
<td>(1.5)</td>
<td>Social Statistics 2</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>

**15.11.24.6 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOCI 690</td>
<td>(3)</td>
<td>M.A. Thesis 1</td>
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<tr>
<td>SOCI 691</td>
<td>(6)</td>
<td>M.A. Thesis 2</td>
</tr>
<tr>
<td>SOCI 693</td>
<td>(3)</td>
<td>M.A. Thesis 4</td>
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<tr>
<td>SOCI 694</td>
<td>(18)</td>
<td>M.A. Thesis 5</td>
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**Required Courses (15 credits)**

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<th>Course Code</th>
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<tr>
<td>INTD 657</td>
<td>(3)</td>
<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 625D1</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.

**15.11.24.7 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>SOCI 693</td>
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</tr>
<tr>
<td>SOCI 694</td>
<td>(18)</td>
<td>M.A. Thesis 5</td>
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</table>

**Required Courses (15 credits)**
GRADUATE AND POSTDOCTORAL STUDIES

SOCl 504* (3) Quantitative Methods 1
SOCl 580* (3) Social Research Design and Practice
SOCl 600* (3) Qualitative Research Methods 1
SOCl 625D1 (0) Professional Development Seminar in Sociology
SOCl 625D2 (0) Professional Development Seminar in Sociology
SOCl 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 Course (3 credits)
3 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 the Department).

15.11.24.8 Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (45 credits)
This program is given jointly by the Sociology Department and the Department of Social Studies in Medicine.

Thesis Courses (27 credits)

SOCl 690 (3) M.A. Thesis 1
SOCl 691 (6) M.A. Thesis 2
SOCl 693 (3) M.A. Thesis 4
SOCl 695 (15) M.A. Thesis 6

Required Courses (12 credits)

SOCl 504* (3) Quantitative Methods 1
SOCl 580* (3) Social Research Design and Practice
SOCl 600* (3) Qualitative Research Methods 1
SOCl 625D1 (0) Professional Development Seminar in Sociology
SOCl 625D2 (0) Professional Development Seminar in Sociology
SOCl 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 (6 credits)
3 credits, ONE of the following courses:

SOCl 515 (3) Medicine and Society
SOCl 538 (3) Selected Topics in Sociology of Biomedical Knowledge

3 credits (at the 500, 600, or 700 level) in History of Medicine.
**Master of Arts (M.A.); Sociology (Non-Thesis) (45 credits)**

**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 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.
- SOCI 505 (3) Quantitative Methods 2
- SOCI 506 (3) Quantitative Methods 3
- SOCI 507 (3) Social Change
- SOCI 508 (3) Medical Sociology and Social Psychiatry
- SOCI 510 (3) Seminar in Social Stratification
- SOCI 511 (3) Movements/Collective Action
- SOCI 512 (3) Ethnicity & Public Policy
- SOCI 513 (3) Social Aspects HIV/AIDS in Africa
- SOCI 514 (3) Criminology
- SOCI 515 (3) Medicine and Society
- SOCI 516 (3) Sociological Theory & Research
- SOCI 519 (3) Gender and Globalization
- SOCI 520 (3) Migration and Immigrant Groups
- SOCI 525 (3) Health Care Systems in Comparative Perspective
- SOCI 529 (3) Political Sociology 1
- SOCI 530 (3) Sex and Gender
- SOCI 535 (3) Sociology of the Family
- 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
**15.11.24.10 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)**

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**Required Courses (21 credits)**

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<tr>
<td>SOCI 652*</td>
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</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.

**15.11.24.11 Master of Arts (M.A.); Sociology (Non-Thesis) — Gender and Women's Studies (45 credits)**

**Research Project (18 credits)**
Required Courses (21 credits)

<table>
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<th>Course</th>
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<td>SOCI 604</td>
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<td>Bibliographic Methods 2</td>
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<tr>
<td>SOCI 625D2</td>
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<tr>
<td>SOCI 652*</td>
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<tr>
<td>WMST 601</td>
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<td>Feminist Theories and Methods</td>
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</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 at the 500, 600, or 700 level including:

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<th>Course</th>
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<th>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 of the Department).

15.11.24 Master of Arts (M.A.); Sociology (Non-Thesis) — Medical Sociology (45 credits)

This program is given jointly by the Sociology Department and the Department of Social Studies in Medicine.

Research Project (18 credits)

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<tr>
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<td>Research Paper 2</td>
</tr>
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<td>SOCI 699</td>
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<td>Research Paper 4</td>
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</table>

Required Courses (18 credits)

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<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
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<td>SOCI 504*</td>
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<td>SOCI 603</td>
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<td>SOCI 625D2</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 (9 credits)

3 credits, ONE of the following courses:
### 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 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.

### Research Project (18 credits)

- **Research Paper 1**
  - SOCI 696 (3)
- **Research Paper 2**
  - SOCI 697 (3)
- **Research Paper 4**
  - SOCI 699 (12)

### Required Courses (24 credits)

- **Quantitative Methods 1**
  - SOCI 504 (3)
- **Sociology of Population**
  - SOCI 545 (3)
- **Social Research Design and Practice**
  - SOCI 580 (3)
- **Qualitative Research Methods 1**
  - SOCI 600 (3)
- **Bibliographic Methods 1**
  - SOCI 603 (3)
- **Bibliographic Methods 2**
  - SOCI 604 (3)
- **Professional Development Seminar in Sociology**
  - SOCI 625D1 (0)
- **Professional Development Seminar in Sociology**
  - SOCI 625D2 (0)
- **Demographic Methods**
  - SOCI 626 (3)
- **Current Sociological Theory**
  - SOCI 652 (3)

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:

- **Public Finance**
  - ECON 622 (3)
- **Economic Development 3**
  - ECON 634 (3)
- **Labour Economics**
  - ECON 641 (3)
- **Economic Development 4**
  - ECON 734 (3)
- **Advanced Labour Economics**
  - ECON 741 (3)
- **Empirical Microeconomics**
  - ECON 742 (3)
- **Health Economics**
  - ECON 744 (3)
- **Population Health and Epidemiology**
  - EPIB 501 (3)
- **Economics for Health Services Research and Policy**
  - EPIB 527 (3)
- **Economic Evaluation of Health Programs**
  - EPIB 528 (3)
15.11.24.14 Master of Arts (M.A.); Sociology (Non-Thesis) — Social Statistics (45 credits)

The program complements disciplinary training with research experience applying statistical methods to Statistics Canada data (or equivalent). It requires a statistics-based research paper that will normally, but not necessarily, flow out of a paper written for one of the graduate seminars.

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).

Research Project (18 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 696</td>
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<tr>
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<td>Research Paper 4</td>
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</table>

Required Courses (21 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 504*</td>
<td>3</td>
<td>Quantitative Methods 1</td>
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<tr>
<td>SOCI 580*</td>
<td>3</td>
<td>Social Research Design and Practice</td>
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<td>SOCI 604</td>
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<td>SOCI 625D1</td>
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<td>SOCI 625D2</td>
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<td>Professional Development Seminar in Sociology</td>
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<tr>
<td>SOCI 652*</td>
<td>3</td>
<td>Current Sociological Theory</td>
</tr>
<tr>
<td>SOCI 688</td>
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</tr>
<tr>
<td>SOCI 689</td>
<td>1.5</td>
<td>Social Statistics 2</td>
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</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. For further information on the M.A. option in Social Statistics, please visit the Social Statistics website at: www.mcgill.ca/socialstatistics.

15.11.24.15 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.

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<th>Course Code</th>
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<tr>
<td>SOCI 704</td>
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</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>
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<td>Reading in Social Theory</td>
</tr>
<tr>
<td>SOCI 730</td>
<td>(3)</td>
<td>Reading and Research</td>
</tr>
</tbody>
</table>

6 credits from the following streams:

**Qualitative Stream:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>(3)</td>
<td>Causes and Errors</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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>(3)</td>
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<td>(3)</td>
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<tr>
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<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>Description</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.

15.11.24.16 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.

Professional Development Seminar in Sociology (0) SOCI 625D1
Professional Development Seminar in Sociology (0) SOCI 625D2
Ph.D. Area Examination 1 (0) SOCI 700
Ph.D. Area Examination 2 (0) SOCI 701
Ph.D. Proposal Approval (0) SOCI 702
Bibliographic Methods 3 (0) SOCI 703
Bibliographic Methods 4 (0) SOCI 704
Feminist Theories and Methods (3) WMST 601
Feminist Research Symposium (3) WMST 602

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
Quantitative Stream

Qualitative Stream
SOCI 601 (3) Qualitative Research Methods 2

AND

3 credits from the following:
SOCI 620 (3) Causes and Errors
SOCI 621 (3) Fixed and Random Effects
SOCI 622 (3) Event History Analysis
SOCI 623 (3) Latent Variable Models

OR

Quantitative Stream
6 credits from the following:
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.
**15.11.24.17 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.

- **SOCI 545** (3) Sociology of Population
- **SOCI 625D1** (0) Professional Development Seminar in Sociology
- **SOCI 625D2** (0) Professional Development Seminar in Sociology
- **SOCI 626** (3) Demographic Methods
- **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

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 Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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>
<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>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>SOCI 506</td>
<td>3</td>
<td>Quantitative Methods 3</td>
</tr>
<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>
</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>
<tr>
<td>SOCI 538</td>
<td>3</td>
<td>Selected Topics in Sociology of Biomedical Knowledge</td>
</tr>
<tr>
<td>SOCI 545</td>
<td>3</td>
<td>Sociology of Population</td>
</tr>
<tr>
<td>SOCI 550</td>
<td>3</td>
<td>Developing Societies</td>
</tr>
<tr>
<td>SOCI 555</td>
<td>3</td>
<td>Comparative Historical Sociology</td>
</tr>
<tr>
<td>SOCI 560</td>
<td>3</td>
<td>Labour and Globalization</td>
</tr>
<tr>
<td>SOCI 565</td>
<td>3</td>
<td>Social Change in Panama</td>
</tr>
<tr>
<td>SOCI 571</td>
<td>3</td>
<td>Deviance and Social Control</td>
</tr>
<tr>
<td>SOCI 588</td>
<td>3</td>
<td>Biosociology/Biodemography</td>
</tr>
<tr>
<td>SOCI 590</td>
<td>3</td>
<td>Social Conflict and Violence</td>
</tr>
<tr>
<td>SOCI 601</td>
<td>3</td>
<td>Qualitative Research Methods 2</td>
</tr>
<tr>
<td>SOCI 620</td>
<td>3</td>
<td>Causes and Errors</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>
<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 688</td>
<td>1.5</td>
<td>Social Statistics 1</td>
</tr>
<tr>
<td>SOCI 689</td>
<td>1.5</td>
<td>Social Statistics 2</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>Credits</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>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>ECON 734</td>
<td>Economic Development 4</td>
<td></td>
</tr>
<tr>
<td>ECON 741</td>
<td>Advanced Labour Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 742</td>
<td>Empirical Microeconomics</td>
<td></td>
</tr>
<tr>
<td>ECON 744</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td>EPIB 501</td>
<td>Population Health and Epidemiology</td>
<td></td>
</tr>
<tr>
<td>EPIB 525</td>
<td>Health Care Systems in Comparative Perspective</td>
<td></td>
</tr>
<tr>
<td>EPIB 527</td>
<td>Economics for Health Services Research and Policy</td>
<td></td>
</tr>
<tr>
<td>EPIB 528</td>
<td>Economic Evaluation of Health Programs</td>
<td></td>
</tr>
<tr>
<td>EPIB 529</td>
<td>Global Environmental Health and Burden of Disease</td>
<td></td>
</tr>
<tr>
<td>EPIB 615</td>
<td>Introduction to Infectious Disease Epidemiology</td>
<td></td>
</tr>
<tr>
<td>EPIB 648</td>
<td>Methods in Social Epidemiology</td>
<td></td>
</tr>
<tr>
<td>EPIB 681</td>
<td>Global Health: Epidemiological Research</td>
<td></td>
</tr>
<tr>
<td>SOCI 512</td>
<td>Ethnicity &amp; Public Policy</td>
<td></td>
</tr>
<tr>
<td>SOCI 513</td>
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</tr>
<tr>
<td>SOCI 535</td>
<td>Sociology of the Family</td>
<td></td>
</tr>
<tr>
<td>SOCI 588</td>
<td>Biosociology/Biodemography</td>
<td></td>
</tr>
</tbody>
</table>

6 credits from the following streams:

**Qualitative Stream:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 601</td>
<td>Qualitative Research Methods 2</td>
</tr>
</tbody>
</table>

and

3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>Causes and Errors</td>
</tr>
<tr>
<td>SOCI 621</td>
<td>Fixed and Random Effects</td>
</tr>
<tr>
<td>SOCI 622</td>
<td>Event History Analysis</td>
</tr>
<tr>
<td>SOCI 623</td>
<td>Latent Variable Models</td>
</tr>
</tbody>
</table>

**OR**

**Quantitative Stream:**

6 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 620</td>
<td>Causes and Errors</td>
</tr>
<tr>
<td>SOCI 621</td>
<td>Fixed and Random Effects</td>
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<td>SOCI 622</td>
<td>Event History Analysis</td>
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<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 Code</th>
<th>Course Title</th>
</tr>
</thead>
</table>

GRADUATE AND POSTDOCTORAL STUDIES
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.

16 Faculty of Dentistry

16.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada’s most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

16.2 Graduate and Postdoctoral Studies

16.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td></td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkanan; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

16.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
16.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

16.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

16.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

16.5 Program Requirements

16.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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

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

All part 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/gps/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.

16.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

**16.5.3 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 and contact the relevant department.

**16.5.4 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.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

**16.6 Graduate Admissions and Application Procedures**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

**16.7 Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.
16.8 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.

16.8.1 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.).

16.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

   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 in the Handbook on Student Rights and Responsibilities ("Green Book"), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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.
16.8.3 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

16.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

16.8.5 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.
16.9  Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

16.10  Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

16.11  Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

16.11.1  Dentistry

16.11.1.1 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

16.11.1.2 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.

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, the candidate serves as a resident principally at the Montreal General Hospital. During this time, the resident is 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.

**Ph.D. (Ad Hoc)**

The Faculty of Dentistry also offers the possibility of directly entering a Ph.D. program 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.Sc. to the ad hoc Ph.D. program.

**section 16.11.1.5: 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 16.11.1.6: 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 1st of each year.

**section 16.11.1.7: Master of Science (M.Sc.); Dental Sciences (Non-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.

### 16.11.1.3 Dentistry Admission Requirements and Application Procedures

#### 16.11.1.3.1 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) tests must be passed in the case 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).

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.

**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 acceptable to l'Ordre des Dentistes du Québec as a training candidate in a hospital.

#### 16.11.1.3.2 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 [section 5.3: Application Procedures](#) for detailed application procedures.

**M.Sc. in Dental Sciences**

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**

This is a four-year M.Sc. thesis program. Applicants applying to the OMFS program must apply to the Certificate in Oral and Maxillofacial Surgery (not Graduate Studies). 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) in order to complete the program.

Further information may be obtained through our website at [www.mcgill.ca/dentistry/prospective/omfs/4-year-certificate](http://www.mcgill.ca/dentistry/prospective/omfs/4-year-certificate).

#### 16.11.1.3.2.1 Additional Requirements

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

- Personal Statement
- Curriculum Vitae

#### 16.11.1.3.3 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).
M.Sc. in Dental Sciences (Thesis) and M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery

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M.Sc. in Dental Sciences (Non-Thesis)

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

16.11.1.4 Dentistry Faculty

Dean, Faculty of Dentistry
P.J. Allison

Associate Dean, Graduate Studies and Research
M.D. McKee

Director, Graduate Studies
S. Tran

Director, Division of Oral and Maxillofacial Surgery
M. El-Hakim; D.M.D., M.D.(Montr.), M.Sc.(McG.), F.R.C.D.(C), Dipl.ABOMS

Director, OMFS Residency Training Program
N. Makhoul

Professors
P.J. Allison; B.D.S., F.D.S.R.C.S., M.Sc.(Lond.), Ph.D.(McG.)
J.E. Barralet; Ph.D., IRC(Lond.)
G. Bennett; B.A.(Rutgers), M.A., Ph.D.(Va.)
F. Cervero; M.B., Ch.B., Ph.D.(Madrid), D.Sc.(Edin.)
L. Diatchenko; M.D., M.Sc., Ph.D.(RSMU, Moscow)
J.S. Feine; D.D.S., M.S.(Texas), H.D.R.
M.D. McKee; B.Sc., M.Sc., Ph.D.(McG.)
D. Reinhardt; Ph.D.(Munich)
M. Tabrizian; D.E.A., Ph.D.(UPMC, Paris)

Associate Professors
C. Bedos; D.D.S.(Paris), M.Sc., Ph.D.(Montr.)
M. Dagenais; D.M.D.(Montr.), Dip. Oral Radiology(Tor.)
R. Emery; D.D.S., M.Sc.(McG.), F.R.C.D.(C), Dipl.ABOMS
S. Esfandiari; B.Sc.(McG.), M.Sc.(Montr.), D.M.D.(Laval), Ph.D., Post Doc.(McG.), F.I.C.O.I.
R. Hovey; M.A.(McG.), Ph.D.(Calg.)
### Associate Professors

M.T. Kaartinen; M.Sc.(Jyväskylä), Ph.D.(Kuopio, Finland)

S. Komarova; M.Sc., Ph.D.(Moscow)

H. Le Moual; D.E.A., M.Sc.(Paris), Ph.D.(Montr.)

S. Nazhat; B.Eng., M.Sc., Ph.D.(Lond.)

B. Nicolau; D.D.S.(UFPR, Brazil), M.Sc., Ph.D.(Lond.)

J.-M. Retrouvey; D.M.D.(Montr.), M.Sc.(Boston)


S. Tran; D.M.D.(Montr.), Cert. Perio, Ph.D.(Minn.)

H. Vafi; B.Sc., Ph.D.(LMU, Germany)

### Assistant Professors

M.E. Macdonald; M.A.(Dal.), Ph.D.(McG.)

N. Makhoul; D.M.D.(McG.), M.D.(Mich.), F.R.C.D.(C), Dipl.ABOMS

M. Murshed; B.Sc.(Aligarh, India), M.Sc.(Free Univ., Brussels), Ph.D.(Cologne)

P. Schweinhardt; M.D.(Ruprecht-Karls Univ.), Ph.D.(Oxf.), Postdoctoral Fellow(McG.)

L. Stone; B.Sc.( Calif.), Ph.D.(Minn.)

A. Velly; D.D.S.(USP, Brazil), M.Sc., Ph.D.(Montr.)

J. Veronneau; D.D.S., M.Sc.(Montr.), Ph.D.(McG.)

J. Zhang; M.D.(Shanghai Second Medical), M.Sc.(Paris XIII), Ph.D.(Laval)

### Adjunct Professors

E. Emami; M.Sc.(Montr.), Ph.D.(McG./Montr.)

A. Kolla; B.Sc., M.Sc., Ph.D.(Montr.)

M.-C. Rousseau; B.Sc.(UQAM), M.Sc., Ph.D.(McG.)

F.M. Schlecht; B.Sc.(McG.), M.Sc.(McG.), Ph.D.(McG.)

### Associate Members

M. Cerruti, E.L. Franco, S. Nazhat, R. St-Arnaud

16.11.15 Master of Science (M.Sc.); Dental Sciences (Thesis) (45 credits)

#### Thesis Courses (30 credits)

(24-30 credits)

- **DENT 650**: (3) Thesis Research 1
- **DENT 651**: (6) Thesis Research 2
- **DENT 652**: (9) Thesis Research 3
- **DENT 653**: (15) Thesis Research 4

#### Required Courses (8 credits)

- **DENT 563**: (1) Introduction to Research
- **DENT 671D1**: (2) Advanced Research Seminar
- **DENT 671D2**: (2) Advanced Research Seminar
- **EPIB 507**: (3) Biostatistics for Health Professionals
### Complementary Courses (13 credits)

7-13 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>ANAT 663D1</td>
<td>(3)</td>
<td>Histology</td>
</tr>
<tr>
<td>ANAT 663D2</td>
<td>(3)</td>
<td>Histology</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 672</td>
<td>(3)</td>
<td>Applied Mixed Methods in Health Research</td>
</tr>
<tr>
<td>EPIB 621</td>
<td>(4)</td>
<td>Data Analysis in Health Sciences</td>
</tr>
<tr>
<td>EPIB 635</td>
<td>(3)</td>
<td>Clinical Trials</td>
</tr>
<tr>
<td>EXMD 610</td>
<td>(3)</td>
<td>Molecular Methods in Medical Research</td>
</tr>
</tbody>
</table>

Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

### 16.11.1.6 Master of Science (M.Sc.); Dental Sciences (Thesis) — Oral and Maxillofacial Surgery (46 credits)

#### Thesis Courses (30 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 651</td>
<td>(6)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>DENT 652</td>
<td>(9)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>DENT 653</td>
<td>(15)</td>
<td>Thesis Research 4</td>
</tr>
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#### Required Courses (16 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 631</td>
<td>(3)</td>
<td>OMFS 2 Seminar</td>
</tr>
<tr>
<td>DENT 632</td>
<td>(3)</td>
<td>Clinical OMFS 2</td>
</tr>
<tr>
<td>DENT 641</td>
<td>(3)</td>
<td>OMFS 3 Seminar</td>
</tr>
<tr>
<td>DENT 642</td>
<td>(3)</td>
<td>Clinical OMFS 3</td>
</tr>
<tr>
<td>EPIB 607</td>
<td>(4)</td>
<td>Inferential Statistics</td>
</tr>
</tbody>
</table>

### 16.11.1.7 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.

#### Research Project (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 670</td>
<td>(6)</td>
<td>Dental Research Project</td>
</tr>
</tbody>
</table>

#### Required Courses (17 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 563</td>
<td>(1)</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>DENT 655</td>
<td>(3)</td>
<td>Health Technology Assessment</td>
</tr>
<tr>
<td>DENT 671</td>
<td>(4)</td>
<td>Advanced Research Seminar</td>
</tr>
<tr>
<td>EPIB 507</td>
<td>(3)</td>
<td>Biostatistics for Health Professionals</td>
</tr>
<tr>
<td>EPIB 600</td>
<td>(3)</td>
<td>Clinical Epidemiology</td>
</tr>
<tr>
<td>EXMD 610</td>
<td>(3)</td>
<td>Molecular Methods in Medical Research</td>
</tr>
</tbody>
</table>

#### Complementary Courses (22 credits)

(minimum 22 credits)
22 credits from Stream 1 OR Stream 2:

**Stream 1: Basic Science Research Methods**

- ANAT 663D1 (3) Histology
- ANAT 663D2 (3) Histology
- ANAT 690D1 (3) Cell and Developmental Biology
- ANAT 690D2 (3) Cell and Developmental Biology
- BMDE 505 (3) Cell and Tissue Engineering
- DENT 504 (3) Biomaterials and Bioperformance
- DENT 654 (3) Mechanisms and Management of Pain
- DENT 669 (3) Extracellular Matrix Biology
- DENT 673 (3) Biotechnology and Entrepreneurship
- PHGY 517 (3) Artificial Internal Organs
- PHGY 518 (3) Artificial Cells
- PHGY 550 (3) Molecular Physiology of Bone

**Stream 2: Clinical and Populational Research Methods**

- DENT 672 (3) Applied Mixed Methods in Health Research
- EDEM 692 (3) Qualitative Research Methods
- EPIB 623 (3) Research Design in Health Sciences
- EPIB 635 (3) Clinical Trials
- EPIB 641 (1) Substantive Epidemiology 1
- EPIB 660 (3) Practical Aspects: Protocol Development
- EPIB 669 (2) Special Topics 2
- EPIB 671 (2) Cancer Epidemiology and Prevention
- EPIB 677 (3) Special Topics 8
- EPIB 679 (3) Special Topics 10

Other complementary 500- or 600-level courses at the University may be taken with the approval of the supervisor or research director and GPS.

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**17 Deans Faculty of Management**

**17.1 Deans Welcome**

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.
McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

17.2 Graduate and Postdoctoral Studies

17.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>

17.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

17.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

17.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

17.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.
17.5 Program Requirements

17.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

17.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

17.5.3 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 and contact the relevant department.

17.5.4 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.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

17.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

17.7 Fellowships, Awards, and Assistantships

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

17.8 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.

17.8.1 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.).

17.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellow/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

17.8.3 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

17.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.cagps/funding/students-postdocs/accepting-maintaining-awards#poli under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

17.8.5 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.

17.9 Graduate Studies Guidelines and Policies
Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

17.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees
Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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
17.11 Desautels Faculty of Management

17.11.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West
Montreal QC H3A 1G5
Canada

Telephone: 514-398-4066
Website: www.mcgill.ca/desautels

17.11.2 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 17.12.7: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Finance (57 credits)
- section 17.12.8: Master of Business Administration (M.B.A.); Management (Non-Thesis) — General Management (57 credits)
- section 17.12.9: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Global Strategy and Leadership (57 credits)
- section 17.12.10: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Marketing (57 credits)
- section 17.12.11: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Technology and Innovation 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 17.12.12.4: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Finance (144 credits)
- section 17.12.12.5: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — General Management (144 credits)
- section 17.12.12.6: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Global Strategy and Leadership (144 credits)
- section 17.12.12.7: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Marketing (144 credits)
- section 17.12.12.8: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Technology and Innovation Management (144 credits)

**M.D./M.B.A.**

- section 17.12.13.4: M.D./M.B.A.; Management (Non-Thesis) (51 credits)

**Master of Business Administration (M.B.A.)/Japan**

- section 17.12.14.4: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Finance (57 credits)
- section 17.12.14.5: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — General Management (57 credits)
- section 17.12.14.6: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Global Strategy and Leadership (57 credits)
- section 17.12.14.7: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (57 credits)
- section 17.12.14.8: 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 17.12.15.4: Executive Master of Business Administration (E.M.B.A.); Joint Executive M.B.A. (Non-Thesis) (45 credits)
Master of Management Programs

section 17.13.4: Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

section 17.13.5: Master of Management (M.M.); IMPM (Non-Thesis) (45 credits)

section 17.13.6: Master of Management (M.M.); IMPMHL (Non-Thesis) (45 credits)

Ph.D. Program

section 17.14.4: Doctor of Philosophy (Ph.D.); Management

Diploma Program and Postgraduate Certificate

section 17.15.4: Graduate Certificate: Post-M.B.A. (15 credits)

section 17.16.6: Graduate Certificate in Professional Accounting (24 credits)

17.12 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 17.12.7: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Finance (57 credits)

section 17.12.8: Master of Business Administration (M.B.A.); Management (Non-Thesis) — General Management (57 credits)

section 17.12.9: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

section 17.12.10: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Marketing (57 credits)

section 17.12.11: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Technology and Innovation Management (57 credits)

17.12.1 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 600 for paper-based test, or 100 for the Internet-based test 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 17.12.1: 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

17.12.2 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 section 5.3: Application Procedures for detailed application procedures.

17.12.2.1 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 17.12.1: 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 by visiting www.mcgill.ca/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.

17.12.3 Application Deadlines

For application deadlines, please consult the following website: www.mcgill.ca/desautels/programs/mba/admissions/admission-requirements.

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.

17.12.4 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. For more information on registration, please refer to the Graduate and Postdoctoral Studies eCalendar for 2014–2015.

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 Certificate of Acceptance from Quebec (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.

Certificate of Acceptance from Quebec (C.A.Q.): The process to come to Canada begins with an application for a Certificate of Acceptance from Quebec (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 by telephone at 514-398-4349 during regular office hours, 9:00 a.m. to 5:00 p.m., or by email at international.students@mcgill.ca.

17.12.5 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 the Graduate and Postdoctoral Studies eCalendar for further information. The form is available at www.mcgill.ca/students/records/forms.

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.

17.12.6 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 Program 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.

The following schools may exchange students with McGill in 2014–2015:

- Asian Institute of Management, Philippines
- Copenhagen Business School, Denmark
- Erasmus University, The Netherlands
- ESADE (Escuela Superior de Administracion y Direcion de Empresas), Spain
- Fudan University, China
- Fundacao Getulio Vargas, Brazil
- HEC (Hautes Études Commerciales), France
- Indian Institute of Management Ahmedabad, India
- Indian Institute of Management Bangalore, India
- Instituto de Estudios Superiores de Administracion (IESA), Venezuela
- ITESM, Mexico
- Luigi Bocconi, Italy
- Manchester Business School, England
- National University of Singapore, Singapore
- Nanyang Business School, Singapore
- Norwegian School of Economics, Norway
- NYU Stern School of Business, U.S.A.
- Stockholm School of Economics, Sweden
- Tel Aviv University, Israel
- Tsinghua University, China
- Universidad Torcuato di Tella, Argentina
- University of Cologne, Germany
- University of Economics, Prague, Czech Republic
- University of Louvain, Belgium
- University of Melbourne, Australia
- University of South Carolina, U.S.A.
- University of St. Gallen, Switzerland
- University of Texas at Austin, U.S.A.
- University of Witwatersrand, South Africa
- Vienna University of Business and Economics, Austria

Non-PIM members:

- ESSEC Business School, France
- Solvay Business School, Brussels, Belgium

17.12.7 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 Core Courses (21 credits)**

All M.B.A. students must complete the following core courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGCR 629</td>
<td>Global Leadership</td>
<td>(1)</td>
</tr>
<tr>
<td>MGCR 650</td>
<td>Business Tools</td>
<td>(2)</td>
</tr>
<tr>
<td>MGCR 651</td>
<td>Managing Resources</td>
<td>(4)</td>
</tr>
<tr>
<td>MGCR 652</td>
<td>Value Creation</td>
<td>(4)</td>
</tr>
</tbody>
</table>
Required Concentration Courses (6 credits)
Students choosing the Finance concentration must complete these required courses:

- FINE 622 (3) Modern Corporate Finance
- FINE 646 (3) Investments and Portfolio Management

Complementary Courses (30 credits)
9 credits selected from the following courses toward the concentration:

- 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

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.

17.12.8 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:*  
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.

17.12.9  Master of Business Administration (M.B.A.); Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

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:

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 Global Strategy and Leadership concentration must complete these required courses:

MGPO 683  (3)  International Business Policy  
ORGB 685  (3)  Cross Cultural Management

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

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  
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
The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 650</td>
<td>6</td>
</tr>
<tr>
<td>BUSA 651</td>
<td>6</td>
</tr>
</tbody>
</table>

* 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.

17.12.10 Master of Business Administration (M.B.A.); Management (Non-Thesis) — Marketing (57 credits)

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<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>

Required Concentration Courses (6 credits)
Students choosing the Marketing concentration must complete these required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 657</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 658</td>
<td>3</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>
</tr>
</thead>
<tbody>
<tr>
<td>INSY 645</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 645</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 652</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 654</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 655</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 659</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 690</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 698</td>
<td>3</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:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 650</td>
<td>6</td>
<td>Internship</td>
</tr>
<tr>
<td>BUSA 651</td>
<td>6</td>
<td>Practicum</td>
</tr>
</tbody>
</table>

* 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.

17.12.11 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 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 Name</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 Code</th>
<th>Credits</th>
<th>Course Name</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 Code</th>
<th>Credits</th>
<th>Course Name</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>
</tbody>
</table>
Managing Organizational Change

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 650</td>
<td>6</td>
<td>Internship</td>
</tr>
<tr>
<td>BUSA 651</td>
<td>6</td>
<td>Practicum</td>
</tr>
</tbody>
</table>

* 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.

17.12.12 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.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 (L.L.B.)

The Joint Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (L.L.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 L.L.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 (L.L.B.) (144 credits)

section 17.12.12.4: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — Finance (144 credits)

section 17.12.12.5: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — General Management (144 credits)

section 17.12.12.6: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — Global Strategy and Leadership (144 credits)

section 17.12.12.7: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — Marketing (144 credits)

section 17.12.12.8: Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — Technology and Innovation Management (144 credits)

17.12.12.1 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

17.12.12.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

17.12.12.3 Application Deadlines

For application deadlines, please consult the following website: www.mcgill.ca/desautels/programs/mbalaw.

17.12.12.4 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — Finance (144 credits)

Students complete 51 credits for the M.B.A. degree, and 93 credits for the integrated B.C.L. and L.L.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>Seminar in Law and 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>

Required Concentration Courses (6 credits)

Students choosing the Finance 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>FINE 622</td>
<td>(3)</td>
<td>Modern Corporate Finance</td>
</tr>
<tr>
<td>FINE 646</td>
<td>(3)</td>
<td>Investments and Portfolio Management</td>
</tr>
</tbody>
</table>

Complementary Courses (21 credits)

Students choosing the Finance 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>ACCT 618</td>
<td>(3)</td>
<td>Financial Reporting: Structure &amp; Analysis</td>
</tr>
<tr>
<td>FINE 541</td>
<td>(3)</td>
<td>Applied Investments</td>
</tr>
<tr>
<td>FINE 620</td>
<td>(3)</td>
<td>Corporate Mergers</td>
</tr>
<tr>
<td>FINE 630</td>
<td>(3)</td>
<td>Fixed Income Markets</td>
</tr>
<tr>
<td>FINE 635</td>
<td>(3)</td>
<td>Financial Risk Management</td>
</tr>
<tr>
<td>FINE 639</td>
<td>(3)</td>
<td>Derivatives and Risk Management</td>
</tr>
<tr>
<td>FINE 645</td>
<td>(3)</td>
<td>Money and Capital Markets</td>
</tr>
<tr>
<td>FINE 648</td>
<td>(3)</td>
<td>Applied Corporate Finance</td>
</tr>
<tr>
<td>FINE 660</td>
<td>(3)</td>
<td>Global Investment Management</td>
</tr>
<tr>
<td>FINE 665</td>
<td>(3)</td>
<td>Investment Strategies and Behavioural Finance</td>
</tr>
<tr>
<td>FINE 690</td>
<td>(3)</td>
<td>Advanced Topics in Finance 1</td>
</tr>
<tr>
<td>FINE 693</td>
<td>(3)</td>
<td>Global Capital Markets</td>
</tr>
<tr>
<td>FINE 694</td>
<td>(3)</td>
<td>International Corporate Finance</td>
</tr>
</tbody>
</table>

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 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>(2.5)</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>LAWG 101D2</td>
<td>(2.5)</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>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>-------------------------------------</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>
<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>
</tr>
<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>PRV1 555</td>
<td>3</td>
<td>Successions</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>PRV4 556</td>
<td>3</td>
<td>Wills and Estates</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>LAWG 200</td>
<td>3</td>
<td>Commercial Law</td>
</tr>
</tbody>
</table>
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 432  (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
Elective - Law, Other Courses
Students select the remaining 19-25 credits from among Faculty of Law offerings.

17.12.12.5 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (L.L.B.) — General Management (144 credits)
Students complete 51 credits for the M.B.A. degree, and 93 credits for the integrated B.C.L. and L.L.B. degrees, for a total of 144 credits.

Required Courses (24 credits)

- BUSA 614 (3) Seminar in Law and Management
- MGCR 629 (1) Global Leadership
- MGCR 650 (2) Business Tools
- MGCR 651 (4) Managing Resources
- MGCR 652 (4) Value Creation
- MGCR 653 (4) Markets and Globalization
- MGCR 660 (6) International Study Trip

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)

- BUS 365 (4) Business Associations
- LAWG 100D1 (3) Contractual Obligations
- LAWG 100D2 (3) Contractual Obligations
- LAWG 101D1 (2.5) Extra-Contractual Obligations/Torts
- LAWG 101D2 (2.5) Extra-Contractual Obligations/Torts
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>
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<th>Title</th>
</tr>
</thead>
<tbody>
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<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</th>
<th>Credits</th>
<th>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>
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<td>3</td>
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<td>PRV4 556</td>
<td>3</td>
<td>Wills and Estates</td>
</tr>
<tr>
<td>PRV5 582</td>
<td>2</td>
<td>Advanced Torts</td>
</tr>
</tbody>
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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.

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<th>Credits</th>
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<tbody>
<tr>
<td>CMPL 522</td>
<td>3</td>
<td>Medical Liability</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>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>LAWG 400</td>
<td>(4)</td>
<td>Secured Transactions</td>
</tr>
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<td>LAWG 415</td>
<td>(3)</td>
<td>Evidence (Civil Matters)</td>
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<tr>
<td>LAWG 504</td>
<td>(3)</td>
<td>Death and Property</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 Title</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>
</tr>
<tr>
<td>PUB2 500</td>
<td>(3)</td>
<td>Law and Psychiatry</td>
</tr>
<tr>
<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 Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS1 432</td>
<td>(3)</td>
<td>Bankruptcy and Insolvency</td>
</tr>
<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>
<tr>
<td>CMPL 577</td>
<td>(3)</td>
<td>Communications Law</td>
</tr>
<tr>
<td>CMPL 580</td>
<td>(3)</td>
<td>Environment and the Law</td>
</tr>
<tr>
<td>LEEL 369</td>
<td>(3)</td>
<td>Labour Law</td>
</tr>
<tr>
<td>LEEL 570</td>
<td>(3)</td>
<td>Employment Law</td>
</tr>
<tr>
<td>LEEL 582</td>
<td>(3)</td>
<td>Law and Poverty</td>
</tr>
<tr>
<td>PRV4 545</td>
<td>(3)</td>
<td>Land Use Planning</td>
</tr>
</tbody>
</table>
The Administrative Process (3) PUB2 400
Judicial Review of Administrative Action (3) PUB2 401
Municipal Law (2) PUB2 500
Law and Psychiatry (3) PUB2 551
Immigration and Refugee Law (3) WRIT 433D1*
Legal Clinic 1 (3) WRIT 433D2*
Legal Clinic 2 (3) WRIT 440*
Legal Clinic 3 (3) WRIT 440D1*
Legal Clinic 4 (3) WRIT 440D2*
Legal Clinic 5 (3) WRIT 441*
Clerkship A (6) 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.

17.12.12.6 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Global Strategy and Leadership (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>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 614</td>
<td>3</td>
<td>Seminar in Law and 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>
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</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>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>
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</table>

Complementary Courses (9 credits)

Students choosing the Global Strategy and Leadership concentration must choose three of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>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>
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<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>Course Code</td>
<td>Credits</td>
<td>Course Name</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>MGPO 630</td>
<td>3</td>
<td>Managing 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 Dev.</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: Dev. 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>

**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>
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<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>2.5</td>
<td>Extra-Contractual Obligations/Torts</td>
</tr>
<tr>
<td>LAWG 101D2</td>
<td>2.5</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>
<tr>
<td>PRV3 200</td>
<td>3</td>
<td>Advanced Common Law Obligations</td>
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<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.

- BUS 561 (3) Insurance
- PROC 549 (3) Lease, Enterprise, Suretyship
- PRV 1 555 (3) Successions
- PRV 2 270 (3) Law of Persons
- PRV 4 548 (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.

- PRV 3 534 (3) Remedies
- PRV 4 451 (3) Real Estate Transactions
- PRV 4 549 (3) Equity and Trusts
- PRV 4 556 (3) Wills and Estates
- PRV 5 582 (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
- PRV 5 483 (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
- PUB 2 105 (3) Public International Law
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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 Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 432</td>
<td>3</td>
<td>Bankruptcy and Insolvency</td>
</tr>
<tr>
<td>BUSI 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>
<tr>
<td>CMPL 577</td>
<td>3</td>
<td>Communications Law</td>
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<tr>
<td>CMPL 580</td>
<td>3</td>
<td>Environment and the Law</td>
</tr>
<tr>
<td>LEEL 369</td>
<td>3</td>
<td>Labour Law</td>
</tr>
<tr>
<td>LEEL 570</td>
<td>3</td>
<td>Employment Law</td>
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<tr>
<td>LEEL 582</td>
<td>3</td>
<td>Law and Poverty</td>
</tr>
<tr>
<td>PRV4 545</td>
<td>3</td>
<td>Land Use Planning</td>
</tr>
<tr>
<td>PRV5 483</td>
<td>3</td>
<td>Consumer Law</td>
</tr>
<tr>
<td>PUB2 400</td>
<td>3</td>
<td>The Administrative Process</td>
</tr>
<tr>
<td>PUB2 401</td>
<td>3</td>
<td>Judicial Review of Administrative Action</td>
</tr>
<tr>
<td>PUB2 403</td>
<td>2</td>
<td>Municipal Law</td>
</tr>
<tr>
<td>PUB2 500</td>
<td>3</td>
<td>Law and Psychiatry</td>
</tr>
<tr>
<td>PUB2 551</td>
<td>3</td>
<td>Immigration and Refugee Law</td>
</tr>
<tr>
<td>WRIT 433D1*</td>
<td>3</td>
<td>Legal Clinic 1</td>
</tr>
<tr>
<td>WRIT 433D2*</td>
<td>3</td>
<td>Legal Clinic 1</td>
</tr>
<tr>
<td>WRIT 434*</td>
<td>3</td>
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<td>Legal Clinic 3</td>
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<td>Clerkship A</td>
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<td>WRIT 440D1*</td>
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<td>Clerkship A</td>
</tr>
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<td>WRIT 440D2*</td>
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<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**

Students select the remaining 19-25 credits from among Faculty of Law offerings.

**17.12.12.7 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Marketing (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>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 614</td>
<td>3</td>
<td>Seminar in Law and Management</td>
</tr>
<tr>
<td>MGCR 629</td>
<td>1</td>
<td>Global Leadership</td>
</tr>
</tbody>
</table>
Required Concentration Courses (6 credits)
Students choosing the Marketing concentration must complete these required courses:

MRKT 657 (3) Buyer Behaviour
MRKT 658 (3) Marketing Intelligence

Complementary Courses (9 credits)
Students choosing the Marketing concentration must choose three of the following courses:

INSY 645 (3) Managing Electronic Commerce
MRKT 645 (3) Winning at Brands
MRKT 652 (3) Marketing Management 2
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

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)

BUS2 365 (4) Business Associations
LAWG 100D1 (3) Contractual Obligations
LAWG 100D2 (3) Contractual Obligations
LAWG 101D1 (2.5) Extra-Contractual Obligations/Torts
LAWG 101D2 (2.5) Extra-Contractual Obligations/Torts
PRAC 147D1 (1.5) Introductory Legal Research
PRAC 147D2 (1.5) Introductory Legal Research
PRAC 155D1 (1.5) Legal Ethics and Advocacy
PRAC 155D2 (1.5) Legal Ethics and Advocacy
PROC 124D1 (2) Judicial Institutions and Civil Procedure
PROC 124D2 (2) Judicial Institutions and Civil Procedure
PROC 200 (3) Advanced Civil Law Obligations
PRV1 144D1 (2.5) Civil Law Property
PRV1 144D2 (2.5) Civil Law Property
PRV3 200 (3) Advanced Common Law Obligations
PRV4 144D1 (2) Common Law Property
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.

- BUS 561 (3) Insurance
- PROC 549 (3) Lease, Enterprise, Suretyship
- PRV 555 (3) Successions
- PRV 270 (3) Law of Persons
- PRV 458 (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.

- PRV 334 (3) Remedies
- PRV 451 (3) Real Estate Transactions
- PRV 459 (3) Equity and Trusts
- PRV 556 (3) Wills and Estates
- PRV 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
- CMPL 573 (3) Civil Liberties
- LAWG 200 (3) Commercial Law
- LAWG 273 (3) Family Law
- LAWG 300 (3) Family Property Law
- LAWG 316 (3) Private International Law
- LAWG 400 (4) Secured Transactions
- LAWG 415 (3) Evidence (Civil Matters)
- LEEL 369 (3) Labour Law
- PRV 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</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 582</td>
<td>(3)</td>
<td>Law and Poverty</td>
</tr>
<tr>
<td>PUB2 105</td>
<td>(3)</td>
<td>Public International Law</td>
</tr>
<tr>
<td>PUB2 500</td>
<td>(3)</td>
<td>Law and Psychiatry</td>
</tr>
<tr>
<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 Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS1 432</td>
<td>(3)</td>
<td>Bankruptcy and Insolvency</td>
</tr>
<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>
<tr>
<td>CMPL 577</td>
<td>(3)</td>
<td>Communications Law</td>
</tr>
<tr>
<td>CMPL 580</td>
<td>(3)</td>
<td>Environment and the Law</td>
</tr>
<tr>
<td>LEEL 369</td>
<td>(3)</td>
<td>Labour Law</td>
</tr>
<tr>
<td>LEEL 570</td>
<td>(3)</td>
<td>Employment Law</td>
</tr>
<tr>
<td>LEEL 582</td>
<td>(3)</td>
<td>Law and Poverty</td>
</tr>
<tr>
<td>PRV4 545</td>
<td>(3)</td>
<td>Land Use Planning</td>
</tr>
<tr>
<td>PRV5 483</td>
<td>(3)</td>
<td>Consumer Law</td>
</tr>
<tr>
<td>PUB2 400</td>
<td>(3)</td>
<td>The Administrative Process</td>
</tr>
<tr>
<td>PUB2 401</td>
<td>(3)</td>
<td>Judicial Review of Administrative Action</td>
</tr>
<tr>
<td>PUB2 403</td>
<td>(2)</td>
<td>Municipal Law</td>
</tr>
<tr>
<td>PUB2 500</td>
<td>(3)</td>
<td>Law and Psychiatry</td>
</tr>
<tr>
<td>PUB2 551</td>
<td>(3)</td>
<td>Immigration and Refugee Law</td>
</tr>
<tr>
<td>WRIT 433D1*</td>
<td>(3)</td>
<td>Legal Clinic 1</td>
</tr>
<tr>
<td>WRIT 433D2*</td>
<td>(3)</td>
<td>Legal Clinic 1</td>
</tr>
<tr>
<td>WRIT 434*</td>
<td>(3)</td>
<td>Legal Clinic 2</td>
</tr>
<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>
</tbody>
</table>
**Elective - Law, Other Courses**

Students select the remaining 19-25 credits from among Faculty of Law offerings.

**17.12.12.8 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) — Technology and Innovation Management (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>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 614</td>
<td>3</td>
<td>Seminar in Law and 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>

**Required Concentration Courses (6 credits)**

Students choosing the Technology and Innovation Management 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>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 (9 credits)**

Students choosing the Technology and Innovation Management concentration must complete three of these complementary courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course 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>

**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)**
BUS2 365 (4) Business Associations
LAWG 100D1 (3) Contractual Obligations
LAWG 100D2 (3) Contractual Obligations
LAWG 101D1 (2.5) Extra-Contractual Obligations/Torts
LAWG 101D2 (2.5) Extra-Contractual Obligations/Torts
PRAC 147D1 (1.5) Introductory Legal Research
PRAC 147D2 (1.5) Introductory Legal Research
PRAC 155D1 (1.5) Legal Ethics and Advocacy
PRAC 155D2 (1.5) Legal Ethics and Advocacy
PROC 124D1 (2) Judicial Institutions and Civil Procedure
PROC 124D2 (2) Judicial Institutions and Civil Procedure
PROC 200 (3) Advanced Civil Law Obligations
PRV1 144D1 (2.5) Civil Law Property
PRV1 144D2 (2.5) Civil Law Property
PRV3 200 (3) Advanced Common Law Obligations
PRV4 144D1 (2) Common Law Property
PRV4 144D2 (2) Common Law Property
PUB2 101D1 (3) Constitutional Law
PUB2 101D2 (3) Constitutional Law
PUB2 111 (3) Criminal Law
PUB3 116D1 (2) Foundations
PUB3 116D2 (2) Foundations
WRIT 400D1 (3) Senior Essay
WRIT 400D2 (3) Senior Essay

**Complementary - 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.

- BUS2 561 (3) Insurance
- LAWG 504 (3) Death and Property
- PROC 549 (3) Lease, Enterprise, Suretyship
- PRV1 555 (3) Successions
- PRV2 270 (3) Law of Persons
- PRV4 548 (3) Administration Property of Another and Trusts

**Complementary - 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
- PRV4 556 (3) Wills and Estates
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>Title</th>
</tr>
</thead>
<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>
</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>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>Title</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>
</tr>
<tr>
<td>PUB2 500</td>
<td>3</td>
<td>Law and Psychiatry</td>
</tr>
<tr>
<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>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS1 432</td>
<td>3</td>
<td>Bankruptcy and Insolvency</td>
</tr>
<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>
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<td>3</td>
<td>Government Control Of Business</td>
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<td>Discrimination and the Law</td>
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<td>CMPL 577</td>
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<td>Communications Law</td>
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<td>CMPL 580</td>
<td>3</td>
<td>Environment and the Law</td>
</tr>
</tbody>
</table>
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 (6) 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.

17.12.13 M.D./M.B.A. Program Admission Requirements and Application Procedures

About the M.D./M.B.A. Program

The M.D./M.B.A. 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.

section 17.12.13.4: M.D./M.B.A.; Management (Non-Thesis) (51 credits)

Offered in cooperation with the Faculty of Medicine.

For more information, contact:

Program Administrator, M.D./M.B.A. Program
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Canada

Email: aed.med@mcgill.ca
Website: www.mcgill.ca/medadmissions/programs/mdcm-mba
17.12.13.1 Admission Requirements

Admission requirements for the M.B.A. program can be found in section 17.12: M.B.A. Program.

For the Faculty of Medicine admission requirements, please visit www.mcgill.ca/medadmissions/programs/mdcm-mba.

17.12.13.2 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 section 5.3: Application Procedures for detailed application procedures.

See www.mcgill.ca/medadmissions for M.D., C.M. program application procedures.

17.12.13.3 Application Deadlines

For application deadlines, please consult the following website: www.mcgill.ca/medadmissions/applying.

17.12.13.4 M.D./M.B.A.; Management (Non-Thesis) (51 credits)

Required Courses (36 credits)

- BUSA 646 (3) Health Management Capstone
- BUSA 650 (6) Internship
- BUSA 698 (3) Health Care Systems
- BUSA 699 (3) Health Care 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

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./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.

17.12.14 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. McGill MBA Japan classes take place at the Hilton Tokyo in Nishi-Shinjuku, Tokyo, placing McGill at the heart of business in Japan and Asia.

Master of Business Administration (M.B.A.); M.B.A./Japan (Non-Thesis) (57 credits)

section 17.12.14.4: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Finance (57 credits)
section 17.12.14.5: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — General Management (57 credits)
section 17.12.14.6: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Global Strategy and Leadership (57 credits)
section 17.12.14.7: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (57 credits)
section 17.12.14.8: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Technology and Innovation Management (57 credits)
17.12.14.1 Admission Requirements  
For more information on admission requirements, visit our website at www.mcgillmbajapan.com.

17.12.14.2 Application Procedures  
For more information on application procedures, visit our website at www.mcgillmbajapan.com.

17.12.14.3 Application Deadlines  
For application deadlines, visit our website at www.mcgillmbajapan.com.

17.12.14.4 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 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 Finance 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>FINE 622</td>
<td>3</td>
<td>Modern Corporate Finance</td>
</tr>
<tr>
<td>FINE 646</td>
<td>3</td>
<td>Investments and Portfolio 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>ACCT 618</td>
<td>3</td>
<td>Financial Reporting: Structure &amp; Analysis</td>
</tr>
<tr>
<td>FINE 541</td>
<td>3</td>
<td>Applied Investments</td>
</tr>
<tr>
<td>FINE 620</td>
<td>3</td>
<td>Corporate Mergers</td>
</tr>
<tr>
<td>FINE 630</td>
<td>3</td>
<td>Fixed Income Markets</td>
</tr>
<tr>
<td>FINE 635</td>
<td>3</td>
<td>Financial Risk Management</td>
</tr>
<tr>
<td>FINE 639</td>
<td>3</td>
<td>Derivatives and Risk Management</td>
</tr>
<tr>
<td>FINE 645</td>
<td>3</td>
<td>Money and Capital Markets</td>
</tr>
<tr>
<td>FINE 648</td>
<td>3</td>
<td>Applied Corporate Finance</td>
</tr>
<tr>
<td>FINE 660</td>
<td>3</td>
<td>Global Investment Management</td>
</tr>
<tr>
<td>FINE 665</td>
<td>3</td>
<td>Investment Strategies and Behavioural Finance</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

17.12.14.5 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

17.12.14.6 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:

- 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 Global Strategy and Leadership concentration must complete these required courses:

- MGPO 683 (3) International Business Policy
- ORGB 685 (3) Cross Cultural Management

**Complementary Courses (30 credits)**

9 credits selected from the following courses toward the concentration:

- 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
- 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
- ORGB 633 (3) Managerial Negotiations
- ORGB 640 (3) The Art of Leadership

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

**17.12.14.7 Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (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 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) Buyer Behaviour
- 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) Marketing Management 2
- 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

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

**17.12.14.8 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:

- 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 (30 credits)**

9 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 653 (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

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
17.12.15 Joint Executive M.B.A. Admission Requirements and Application Procedures

About the Joint Executive M.B.A.

section 17.12.15.4: Executive Master of Business Administration (E.M.B.A.); Joint Executive M.B.A. (Non-Thesis) (45 credits)

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.

17.12.15.1 Admission Requirements

For the admission criteria, please consult the following website: www.embamcgillhec.ca/en/application/admission-criteria.

17.12.15.2 Application Procedures

For the application procedures, please consult the following website: www.embamcgillhec.ca/en/application.

17.12.15.3 Application Deadlines

For the application deadlines, please consult the following website: www.embamcgillhec.ca/en/application.

17.12.15.4 Executive Master of Business Administration (E.M.B.A.); Joint Executive M.B.A. (Non-Thesis) (45 credits)

Required Courses (45 credits)

McGill University courses (33 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 642</td>
<td>4</td>
<td>Reflective Dimension Manager Role</td>
</tr>
<tr>
<td>BUSA 643</td>
<td>4</td>
<td>Collaborative Dimension Manager</td>
</tr>
<tr>
<td>BUSA 644</td>
<td>4</td>
<td>Analytic Dimension of Manager Role</td>
</tr>
<tr>
<td>BUSA 645</td>
<td>4</td>
<td>Worldly Dimension of Manager Role</td>
</tr>
<tr>
<td>BUSA 685</td>
<td>5</td>
<td>Managing Change</td>
</tr>
<tr>
<td>BUSA 689</td>
<td>12</td>
<td>Integrative Project</td>
</tr>
</tbody>
</table>

HEC Montréal courses (12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHEC 600</td>
<td>4</td>
<td>Création de valeur</td>
</tr>
<tr>
<td>MHEC 601</td>
<td>4</td>
<td>Excellence opérationnelle</td>
</tr>
<tr>
<td>MHEC 602</td>
<td>4</td>
<td>Outils et pratiques de gestion</td>
</tr>
</tbody>
</table>

17.13 Master of Management Programs Admission Requirements and Application Procedures

About Master of Management Programs

section 17.13.4: Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

This is a 12-month academic program followed by a four-month industrial internship, offered in collaboration with the Faculty of Engineering.

McGill University’s Master of Manufacturing Management (M.M.M.) program attracts professionals from around the world who wish to pursue a career in the effective management of global operations and supply chain. This specialty program is offered jointly through the Desautels Faculty of Management and Faculty of Engineering, and in partnership with industry. The M.M.M. program provides a technical alternative to an M.B.A., with active industry involvement and a targeted focus on manufacturing, supply chain, and logistics operations. During the 11-month academic term, M.M.M. students complete Management and Engineering courses and participate in professional development workshops to hone their leadership and communication skills. This is followed by a four-month industrial internship.
**section 17.13.4: Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)**

Students should hold an undergraduate degree in engineering or science and have full-time work experience of at least two years in some facet of operations. Students with other academic backgrounds and appropriate industrial experience will be considered, but may have to take one or two Qualifying courses. The program is intended mainly for full-time students. Enrolment is limited.

The M.M. program is a self-funded program.

**Note:** The program curriculum is being revised to enhance its quality and relevance, while keeping the focus still on designing and managing global supply chains for manufacturing and service organizations. The program is not being offered in 2014–2015.

**section 17.13.5: Master of Management (M.M.); IMPM (Non-Thesis) (45 credits)**

Functioning within an authentically international context, this cooperative venture of business schools located in five different countries allows mid-career executives to study topical international business problems on site at universities in France, England, India, Japan, and Canada.

For more information, visit our website at [www.impm.org](http://www.impm.org).

**section 17.13.6: 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 each other and gain a better understanding of their own leadership styles, the systems they work in, their organizational contexts, and the work relationships they must build in order to achieve change. For more information, visit our website at [www.mcgill.ca/desautels/programs/imhl](http://www.mcgill.ca/desautels/programs/imhl).

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### 17.13.1 Admission Requirements

Please refer to [www.impm.org](http://www.impm.org) for admission information.

### 17.13.2 Application Procedures


### 17.13.3 Application Deadlines

Please refer to the following websites for more information:

- IMPM: [www.impm.org/admissions](http://www.impm.org/admissions)

### 17.13.4 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>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 524</td>
<td>(3) Computer Integrated Manufacturing</td>
</tr>
<tr>
<td>MECH 627</td>
<td>(9) Manufacturing Industrial Stage</td>
</tr>
<tr>
<td>MECH 628</td>
<td>(2) Manufacturing Case Studies</td>
</tr>
<tr>
<td>MECH 629</td>
<td>(1) Manufacturing Industrial Seminar</td>
</tr>
<tr>
<td>MGSC 602</td>
<td>(3) Strategic Management of Operations</td>
</tr>
<tr>
<td>MGSC 603</td>
<td>(3) Logistics Management</td>
</tr>
<tr>
<td>MGSC 605</td>
<td>(3) Total Quality Management</td>
</tr>
<tr>
<td>MGSC 608</td>
<td>(3) Data Decisions and Models</td>
</tr>
<tr>
<td>MGSC 631</td>
<td>(3) 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
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

17.13.5  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
### 17.13.6 Master of Management (M.M.); IMPMHL (Non-Thesis) (45 credits)

**Research Project (12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 689</td>
<td>(12)</td>
<td>Integrative Project</td>
</tr>
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</table>

**Required Courses (33 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSA 666</td>
<td>(5)</td>
<td>The Practice of Management</td>
</tr>
<tr>
<td>BUSA 668</td>
<td>(5)</td>
<td>The Venture</td>
</tr>
<tr>
<td>BUSA 670</td>
<td>(5)</td>
<td>Managing Organizations</td>
</tr>
<tr>
<td>BUSA 672</td>
<td>(3)</td>
<td>Managerial Exchange</td>
</tr>
<tr>
<td>BUSA 675</td>
<td>(5)</td>
<td>Managing Context</td>
</tr>
<tr>
<td>BUSA 680</td>
<td>(5)</td>
<td>Managing People</td>
</tr>
<tr>
<td>BUSA 685</td>
<td>(5)</td>
<td>Managing Change</td>
</tr>
</tbody>
</table>

### 17.14 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: 514-398-4074  
Fax: 514-398-3876  
Email: phd.mgmt@mcgill.ca  
Website: www.mcgill.ca/desautels/programs/phd

**section 17.14.4: Doctor of Philosophy (Ph.D.); Management**

The Ph.D. program in Management is offered jointly by the four Montreal universities: Concordia University, École des Hautes Études Commerciales (affiliated with the Université de Montréal), McGill University, and Université du Québec à Montréal. The program is intended to educate competent researchers and to stimulate research on management issues.

**section 17.14.5: 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.

The Ph.D. program is offered jointly with three other institutions:

Concordia University  
John Molson School of Business
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 250 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.

**Phase I – Preparation**

Before entering the program, the student will have selected the area of specialization from the following areas:

- Accounting
- Finance
- Information Systems
- Marketing
- Operations Management
- Organizational Behaviour
- Strategy and Organization
- NSERC CREATE*

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.

**Phase II – Specialization**

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. Phase II 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)
The Advisory Committee will normally consist of at least three or four 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.

**Phase III – Dissertation**

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 Committee and, once the research is completed and the dissertation written, the student publicly defends the completed thesis.

**NSERC CREATE Ph.D. option in Healthcare Operations and Information Management** – Offered jointly by six Canadian universities: McGill, British Columbia, Ottawa, Queen's, Toronto, and Montréal; this Ph.D. program brings together expertise on healthcare processes, operations research, information systems, and telecommunications engineering.

### 17.14.1 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 applications to the doctoral program; this includes McGill master's students applying to the Ph.D. The minimum score required is 600. 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. 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 Deadlines.

Students may apply for admission to one or more of the participating universities. These applications will be processed by the individual university to which the applicant has applied and by the Joint Committee of the four schools. Students' preferences will prevail when more than one participating university is prepared to accept them. The Ph.D. degree will be granted by the university that admits the student. The program requires a minimum full-time residency of six terms.

### 17.14.2 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 section 5.3: Application Procedures for detailed application procedures.

#### 17.14.2.1 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
- Answers to Personal Statement questions
- Curriculum Vitae

### 17.14.3 Application Deadlines

For application deadlines, please consult the following website: [www.mcgill.ca/desautels/programs/phd/admissions/deadline](http://www.mcgill.ca/desautels/programs/phd/admissions/deadline).

### 17.14.4 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.

EDPH 689 (3) Teaching and Learning in Higher Education
Complimentary Courses (18 credits)
12 credits of specialization courses
6 credits in the support field

17.14.5 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

Complimentary 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.
17.15 Post-M.B.A. Certificate Admission Requirements and Application Procedures

Note: This program is no longer accepting new students.

About the Post-M.B.A. Certificate

The 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 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.

Admission Requirements

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 or call the Master Programs Office at 514-398-4066.

Application Procedures

This program is no longer accepting new students.

Application Deadlines

This program is not accepting applications.

Graduate Certificate: Post-M.B.A. (15 credits)

This program is no longer accepting new students.

Required Courses

15 credits of M.B.A. courses.

17.16 Graduate Certificate in Professional Accounting (GCPA or CPA Program) Admission Requirements and Application Procedures

About the Graduate Certificate in Professional Accounting (CPA)

The Graduate Certificate in Professional Accounting program is offered full-time by the Desautels Faculty of Management, and part-time through the School of Continuing Studies.

The McGill CPA program 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 Exams (CFE). Completion of a PEP and passing the CFE are two of the required components for obtaining of the highly respected CPA designation. Combining McGill's international reputation, a history of an excellent pass record on the legacy CA exams, and top professors, the CPA program ensures that graduates can make professional judgments on financials in a global business environment.

The CPA program is intended to allow students to develop professional skills that will be recognized nationally and internationally. It 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 analytical skills, diagnostic capabilities, and evaluation skills 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.

Coupled with a 24-month recognized training period, the CPA program provides students with the academic and professional business training, communication and interpersonal skills needed to succeed in a CPA career.

17.16.1 Admission Requirements

Option 1:
Applicants completing a Canadian B.Com. degree from a recognized institution are required to obtain a minimum CGPA of 3.0 out of 4.0* and successfully complete the following prerequisite courses, or their equivalents, with minimum grades of B-.

- ACCT 351 Intermediate Financial Acct 1
- ACCT 352 Intermediate Financial Acct 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 Finance 2

* Admission to the program is highly competitive and meeting the minimum requirements does not secure your entry into the CPA program.

Option 2:
Graduates of programs other than the Canadian Bachelor of Commerce or graduates with foreign degrees must complete the following courses through the School of Continuing Studies' Diploma in Accounting program prior to admission to the CPA program. Please note that obtaining the minimum requirements does not secure admission to the CPA program.

- 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 Info 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

17.16.2 Application Procedures

McGill’s online application for the CPA program can be submitted through [www.mcgill.ca/gradapplicants/apply/ready](http://www.mcgill.ca/gradapplicants/apply/ready).

See section 5.3: Application Procedures for detailed application procedures.

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](http://uApply) and evaluated by the CPA Office.
The program must be completed within three years of admission.

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

- Applicants who have been accepted to the CPA 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 to the student’s fee account.

17.16.3 Application Deadlines
The application deadlines listed here 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.

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<thead>
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<th></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Winter: N/A</td>
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<tr>
<td>Summer: Feb. 1</td>
<td>Summer: Dec. 15</td>
<td>Summer: N/A</td>
<td></td>
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</tbody>
</table>

17.16.4 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 Exam (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
5. Become, or be, either a Canadian citizen or landed immigrant

Once all these criteria have been met, the student will obtain the designation of Chartered Professional Accountant from L'Ordre des comptables professionnels agréés du Québec (OCPAQ).

Further information can be obtained from:

Ordre des comptables professionnels agréés du Québec
Head Office
4, Place Ville Marie, 6e étage
Montréal QC H3B 2E7
Canada

Telephone: 514-288-3256 or 1-800-363-4688
Email: info@cpaquebec.ca
Web: http://cpaquebec.ca

17.16.5 Graduate Diploma in Public Accountancy (Chartered Accountancy) (30 credits)
**This program will not be offered as of Summer 2014. It has been replaced by the Graduate Certificate in Professional Accounting effective Fall 2014. For more information on the Graduate Certificate in Public Accountancy, please visit: http://www.mcgill.ca/desautels/programs/cpa

17.16.6 Graduate Certificate in Professional Accounting (24 credits)
The Graduate Certificate in Professional Accounting is a recognized professional education program (PEP) by l’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. The program is offered on a full-time basis in the Desautels Faculty of Management or on a part-time basis through the School of Continuing Studies.

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
BUSA 364 (3) Business Law 1
FINE 342 (3) Finance 2

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
ACCT 699 (0) Exam Preparation Seminar

Complementary Courses (8 credits)

ACCT 683 (4) Practice of Taxation
ACCT 685 (4) Accounting and Performance Management
ACCT 687 (4) Assurance Services
ACCT 689 (4) Financial Business Analysis
# Desautels Faculty of Management Faculty

## Dean

Morty Yalovsky (Interim)

## Associate Deans

Tamer Boyaci – *Master's Programs*

Shanling Li – *Research & International Relations*

Robert Hebdon – *Student Affairs*

Morty Yalovsky – *Academic Directors*

## Directors

Sujata Madan – *Academic Director (M.B.A. Program)*

Donald Melville – *Director, Master's Programs*

Henry Mintzberg – *Program Chair, International Master's Program in Practising Management (IMPM)*

Saibal Ray – *Director, Ph.D. Program; Program Co-Director, Master of Management (Manufacturing)*

Julia Scott – *Director, C.P.A. Program*

Steve Maguire – *Director and Chair, Integrated Management*

## 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.N. Kanungo; B.A., M.A.(Patna), Ph.D.(McG.) – *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)*

L. Dubé; B.Sc.(Laval), M.B.A.(HEC), M.P.S., Ph.D.(Cornell) – *Marketing (James McGill Professor)*

V.R. Errunza; B.Sc.(Tech.)(Bom.), M.Sc., Ph.D.(Calif.) – *Finance (Bank of Montreal Finance Chair)*

R. Hebdon; B.A., M.A., Ph.D.(Tor.) – *General Management-Industrial Relations*

M.D. Lee; B.A.(Eckerd), M.Ed.(Temple), M.A.(S. Florida), Ph.D.(Yale) – *Organizational Behaviour*

S. Li; M.S.(Georgia), Ph.D.(Texas) – *Management Science*

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.C.(Cdia), M.Sc.(HEC), Ph.D.(Calif.) – *Information Systems (James McGill Professor and IMASCO Chair in I.S.)*

V. Verter; B.A., M.S.(Bogaziçi), 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*

G. Basselier; B.Com., M.Sc.(HEC) – *Information Systems*

T. Boyaci; B.S.(Middle-East Tech., Turkey), M.S., Ph.D.(Col.) – *Operations Management*

F. Carrieri; Laurea-Law(Univ. di Bari), M.A., Ph.D.(USC) – *Finance*

B. Croitoru; DIAF(Institut de Statistique, Univ. Pierre et Marie Curie), Ph.D.(Wharton) – *Finance*

R. David; B.Eng., M.B.A.(McG.), Ph.D.(Cornell) – *Strategy and Organization*
Associate Professors

A. de Motta; B.A.(Universidad De Valencia, Spain) – Finance

J. Ericsson; M.Sc., Ph.D.(Stockholm Sch. of Econ.) – Finance

H. Etemad; B.S.C., M.Eng.(Tehran), M.S., M.B.A., Ph.D.(Calif.) – International Business

S. Faraj; B.S.(Wisc.), M.S.(MIT), DBA – MIS

S. Fortin; B.A.A.(U. du Queb. à Rimouski), Ph.D.(Wat.) – Accounting

R. Goyenko; Ph.D.(Ind.) – Finance

M. Graham; M.A., M.B.A., Ph.D.(Harv.) – Strategy and Organization

M. Gumus; B.S.(Naval Academy), M.S., Ph.D.(Calif.) – Industrial Engineering and Operations Research

K. Han; B.S., M.S.(KAIST), Ph.D.(Minn.) – Information Systems

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. Jorgensen; B.A., M.A.(N. Carolina), Ph.D.(McG.) – Strategy and Organization

L. Lapointe; B.A., M.Sc.(Montr.), Ph.D.(HEC) – Information Systems

S. Li; M.S.(Georgia Tech.), Ph.D.(Texas-Austin) – Operations Management

S. Maguire; B.Sc.(Qu.), M.B.A.(Br. Col.) – Strategy and Organization

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.(San Diego St.), M.Phil., Ph.D (NYU) – Strategy and Organization

S. Ray; B.E.(Jadavpur), M.E.(Asian I.T.), Ph.D.(Wat.) – Operations Management

E. Sarigollu; B.A., M.B.A.(Bogaziçi), M.A., Ph.D.(Penn.) – Marketing

S. Sarkissian; M.S.(Calif., Berk.), Ph.D.(Wash.) – Finance

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. Vakratsas; B.Sc.(Aristotle U.), M.S., Ph.D.(Texas) – Marketing

M. Yalovsky; B.Sc., M.Sc., Ph.D.(McG.) – Operations Management

Assistant Professors

P. Augustin; B.Ec., M.Ec.(L. Pasteur), M.Sc.(Luxembourg), Ph.D.(Stockholm) – Finance

M. Bannerjee; B.A.(Exc.), M.Phil.(Camb.), Ph.D.(Cornell) – Organizational Behaviour

L. Barras; B.Com., M.Sc, Ph.D.(Geneva) – Finance

S. Betermier; B.A.(Calif., Davis), M.S., Ph.D.(Calif., Berk.) – Finance

M. Bouvard; Ph.D.(Toulouse) – Finance

A-S. Chaxel; M.Sc.(HEC Paris), M.(Paris), Ph.D.(Cornell) – Marketing

L. Cohen; B.A.(Kalamazoo), M.B.A.(Duke), Ph.D.(Calif., Berk.) – Organizational Behaviour

T. Dotzel; Ph.D.(Texas) – Marketing

D. Etzion; B.Sc.(Ben-Gurion), M.Sc.(Tel Aviv), Ph.D.(Navarra) – Strategy and Organization

S. Gagnon; B.A.(Br. Col.); M.Sc.(Oxf.) – Organizational Behaviour

D. Han; B.B.A., M.S.(Seoul), Ph.D.(Bloomington) – Marketing

P. Hewlin; B.A.(Binghamton), M.B.A., Ph.D.(NYU) – Organizational Behaviour

M. Hollister; B.A.(Haver.), M.C.P.(MIT), Ph.D.(Harv.) – Organizational Behaviour
Assistant Professors

R. Huising; B.A.(Alta.), M.Sc.(Lond.), Ph.D.(MIT) – Organizational Behaviour
M. Hwang; B.S.(Seoul), Ph.D.(MIT), Ph.D.(Calif.-LA) – Marketing
P. Kalyta; M.B.A., Ph.D.(C'dia) – Accounting
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. Li; B.A., M.A.(Tsinghua), Ph.D.(USC) – Finance
A. Malkhozov; B.Ec.(Strasbourg), M.Ec.(Paris), M.Sc., Ph.D.(Lond.) – Marketing
S. Mathur; B.Eng.(Roorkee), M.Sc.(Ill.-Urbana-Champaign), M.Sc., Ph.D.(Cam. Mell) – Marketing
E. Obukhova; B.A.(Florida), M.S.(N'Western), Ph.D.(Chic.) – Strategy and Organization
I. Okhmatovskiy; B.A. equivalent(Moscow), M.S. equivalent(Academy of National Economy), Ph.D.(USC) – Strategy
S. Oz; B.S.(Bilkent), M.Ph., Ph.D.(NYU) – Accounting
J. Pruijssers; B.A.(McG.), M.Sc.(Lond.), M.Phil., Ph.D.(Erasmus) – Accounting
M. Qiu; B.A.(Huazhong), M.A.(S. Fraser), Ph.D.(Alta.) – Marketing
M.J. Rabier; B.S.B.A.(Pitt.), Ph.D.(Md.) – Accounting
J. Ramprasad; 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
Z. Singer; B.A.(Tel-Aviv), M.B.A.(Wash.), Ph.D.(Calif.) – Accounting
J. Struber; Ph.D.(MIT) – Strategy and Organization
R. Vaidyanathan; Ph.D.(Penn.) – Operations Management
D. Wang; B.E.(Tsinghua), Ph.D.(Mich.) – Operations Management
P. Younkin; B.A.(Col.), M.A., Ph.D.(Calif., Berk.) – Strategy and Organization
J. Zhang; B.S.(Zhongnan), M.A. (Boston), M.S. (Chic.), Ph.D. (N'Western) – Accounting

Faculty Lecturers

L. Breitner; B.A.(Wisc.), M.B.A.(Simmons), D.B.A.(Boston) – Accounting and Health Management
A. Burlton; B.Com.(C'dia) D.P.A.(McG.) – Entrepreneurship and Accounting
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
L. Chauvin; B.A.(Ott.), M.A.(C'dia) – Strategy and Organization
V. di Pietro; B.Eng.(McG.), M.M.F.(Tor.), Ph.D.(N’western) – Finance
R. Donovan; B.Com.(McG.), GDIT(C'dia) – Information Systems
L. Gialloreto; B.A.(W. Ont.), M.B.A.(McG.), B.A. Law(Car.), LL.M.(McG.) – Marketing
L. Goldsman; B.Com.(C'dia), D.P.A.(McG.), C.A. – Accounting
L. Hammami; B.Com., M.B.A.(Laval) – Finance
D. Hart; B.Sc., M.B.A.(McG.), M.Sc.(C'dia) – Operations Management
L. Holmgren; B.A.(Ariz.), M.A., Ph.D.(McG.) – General
Y. Jang; B.S.(Seoul), M.S., M.S., Ph.D.(MIT) – 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
Faculty of Education

18.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the administration and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

18.2 Graduate and Postdoctoral Studies

18.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>
18.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

18.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

18.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

18.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

18.5 Program Requirements

18.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

**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 form, 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/gps/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.

**18.5.2 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 14.8.3: 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.

**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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

18.5.3 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 and contact the relevant department.

18.5.4 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.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

18.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.
18.7 Fellowship, Awards, and Assistantships

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

18.8 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.

18.8.1 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.).

18.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

18.8.3 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

18.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

18.8.5 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.

18.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

18.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

18.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

18.11.1 Educational and Counselling Psychology

18.11.1.1 Location

Department of Educational and Counselling Psychology
Education Building, Room 614
3700 McTavish Street
Montreal QC H3A 1Y2
Canada

Telephone – Program Information: 514-398-4242
Fax: 514-398-6968
Email: ecinfo.education@mcgill.ca
Website: www.mcgill.ca/edu-ecp
18.11.1.2 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), and (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 (www.mcgill.ca/edu-ecp/about/clinic) and the Departmental Assessment Materials Resource Centre (www.mcgill.ca/edu-ecp/students/amrc). 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, FRSQ, 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 18.11.1.2: Graduate Degrees in Counselling Psychology
- section 18.11.1.2: Graduate Degrees in School/Applied Psychology
- section 18.11.1.2: 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. Educational Psychology with a Major in:
   - School/Applied Child Psychology

3. 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

For information about these graduate programs please view our website at www.mcgill.ca/edu-ecp/prospective or contact the appropriate Program Coordinator/Adviser:

For Educational Psychology programs (excluding School/Applied Child Psychology) contact:

Graduate Program Coordinator
Mrs. Geri Norton
Telephone: 514-398-4244
Email: edpsych.education@mcgill.ca

For Counselling Psychology and School/Applied Child Psychology contact:

Graduate Program Adviser
Mr. Alexander Nowak
Telephone: 514-398-4245
Email: counsellingpsych.education@mcgill.ca or schoolpsych.education@mcgill.ca

Professional Accreditation

The Ph.D. in School/Applied Child Psychology is accredited by the American Psychological Association (APA) and is currently under review for accreditation by the Canadian Psychological Association (CPA). The Ph.D. in Counselling Psychology is jointly accredited by the CPA and the APA. 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 will no longer accredit 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/support/education/accreditation/international.aspx#answer.

Important addresses:

APA – Committee on Accreditation, 750 First Street NE, Washington, DC, 20002-4242, U.S.A.; Telephone: 1-800-374-2721

CPA – 151 Slater Street, Suite 205, Ottawa, ON, K1P 5H3, Canada; Telephone: 1-888-472-0657

OCCOQ – 1600 Henri Bourassa Blvd. West, Suite 520, Montreal, QC, H3M 3E2, Canada; Telephone: 514-737-6431

OPQ – 1100 Beaumont, Suite 510, Mount-Royal, QC, H3P 3H5, Canada; Telephone: 514-738-1881

Graduate degrees in Counselling Psychology or School/Applied Child Psychology, and elsewhere in Educational Psychology, do not lead to teaching certification—see the Undergraduate eCalendar 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 at www.mcgill.ca/edu-ecp/research.

Graduate Degrees in Counselling Psychology

section 18.11.1.5: Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Professional/Internship (60 credits)

The aim of the M.A. (Non-Thesis) in Counselling Psychology (Professional/Internship) 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 at www.mcgill.ca/edu-ecp/programs/counsellingpsych.
GRADUATE AND POSTDOCTORAL STUDIES

section 18.11.1.6: Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Project (60 credits)

The M.A. (Non-Thesis) in Counselling Psychology (Project) 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 at www.mcgill.ca/edu-ecp/programs/counsellingpsych.

section 18.11.1.7: 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), the Ordre des psychologues du Québec (OPQ), and American Psychological Association (APA). (Please note that APA accreditation will cease for all Canadian institutions in 2015.) Graduates are eligible for licensure in Quebec.

For further information, consult the website at www.mcgill.ca/edu-ecp/programs/counsellingpsych.

Graduate Degrees in School/Applied Psychology

section 18.11.1.8: 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 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 American Psychological Association (APA) and the Ordre des psychologues du Québec (OPQ). (Please note that APA accreditation will cease for all Canadian institutions in 2015.) Graduates are eligible for licensure in Quebec.

For further information, consult the website at www.mcgill.ca/edu-ecp/programs/schoolpsych.

section 18.11.1.9: Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

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 American Psychological Association (APA). 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
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 18.11.1.10: 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 18.11.1.11: 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 worth). See [section 18.11.1.12: Master of Education (M.Ed.); Educational Psychology (Non-Thesis) — General Educational Psychology: Project (48 credits)].

d. **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 18.11.1.13: Master of Education (M.Ed.); Educational Psychology (Non-Thesis) — Inclusive Education (48 credits)].

e. **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 worth). See [section 18.11.1.14: Master of Education (M.Ed.); Educational Psychology (Non-Thesis) — Inclusive Education: Project (48 credits)].

f. **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 18.11.1.15: Master of Education (M.Ed.); Educational Psychology (Non-Thesis) — Learning Sciences (48 credits)].

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.


**Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits)** *(Note that the School/Applied Child Psychology Major is 78 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.

**Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits)** (Note that the School/Applied Child Psychology Major is 78 credits.)

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 website: [www.mcgill.ca/centreformeded](http://www.mcgill.ca/centreformeded).

   See section 18.11.1.16: 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 18.11.1.17: 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.

   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 18.11.1.18: Master of Arts (M.A.); Educational Psychology (Thesis) — Learning Sciences (45 credits).

The School/Applied Child Psychology Major ([www.mcgill.ca/edu-ecp/programs/schoolpsych](http://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 18.11.1.19: Master of Arts (M.A.); Educational Psychology (Thesis) — School/Applied Child Psychology (78 credits).

**Master of Arts (M.A.); Educational Psychology (Non-Thesis) (48 credits)**

The M.A. (Non-Thesis) in Educational Psychology is available only to M.A. students admitted to the study sequence leading to the Ph.D. School/Applied Child Psychology, and who wish to transfer after the first semester.

*Please note that this program is currently not offered.*

**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:
**Doctor of Philosophy (Ph.D.); Educational Psychology**

1. **Human Development concentration:** ([www.mcgill.ca/edu-ecp/programs/humandev](http://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 18.11.1.20: Doctor of Philosophy (Ph.D.); Educational Psychology — Human Development.**

2. **Learning Sciences concentration:** ([www.mcgill.ca/edu-ecp/programs/learningsci](http://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 18.11.1.21: Doctor of Philosophy (Ph.D.); Educational Psychology — Learning Sciences.**

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### 18.11.1.3 Educational and Counselling Psychology Admission Requirements and Application Procedures

#### 18.11.1.3.1 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)

**18.11.1.3.1.1 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 at [www.mcgill.ca/edu-ecp/programs](http://www.mcgill.ca/edu-ecp/programs).

**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, found at [www.mcgill.ca/edu-ecp/programs/counsellingpsych/ma](http://www.mcgill.ca/edu-ecp/programs/counsellingpsych/ma)), 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 at [www.mcgill.ca/edu-ecp/programs](http://www.mcgill.ca/edu-ecp/programs).

**18.11.1.3.1.2 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 **section 5.3: Application Procedures** for detailed application procedures.

**18.11.1.3.1.3 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 online in the following section of the Departmental website: [www.mcgill.ca/edu-ecp/programs/counsellingpsych/ma](http://www.mcgill.ca/edu-ecp/programs/counsellingpsych/ma).

#### 18.11.1.3.2 Ph.D. in Counselling Psychology

**18.11.1.3.2.1 Admission Requirements**

To be eligible applicants must hold:
A master's degree equivalent to the section 18.11.1.6: 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, found at www.mcgill.ca/edu-ecp/programs/counsellingpsych/phd), 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.

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

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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/counsellingpsych/phd

18.11.13.3 Ph.D. in School/Applied Child Psychology

18.11.13.31 Admission Requirements

To be eligible applicants must hold:

A master's degree equivalent to the section 18.11.1.19: Master of Arts (M.A.); Educational Psychology (Thesis) — School/Applied Child Psychology (78 credits) along with 42 credits of core courses in specific domains (see list in the Pre-Admission Academic Checklist, found at www.mcgill.ca/edu-ecp/programs/counsellingpsych/phd), 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.

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

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
- GRE – General and Psychology subject tests
- A letter from the applicant's prospective supervisor agreeing to act as their Ph.D. supervisor

Information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in School/Applied Child Psychology, can be found online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/schoolpsych/phd.

18.11.13.4 Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

18.11.13.41 Admission Requirements

An earned doctorate in Educational Psychology, another area of Psychology, or a closely related discipline (to be recognized at the Program Director's discretion).

18.11.13.42 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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/schoolpsych/postphd.

18.11.13.5 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)

18.11.1.351 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.

18.11.1.352 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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/mededpsych/med.

18.11.1.36 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

18.11.1.361 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, found at www.mcgill.ca/edu-ecp/programs/counsellingpsych/ma).
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.

18.11.1.362 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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/learningsci/ma.

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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/healthprofessions/ma.

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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/humandev/ma.

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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/schoolpsych/ma.

18.11.362.1 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

18.11.3.7 M.A. in Educational Psychology (Non-Thesis)

Note: Admission to this program is currently suspended.

18.11.3.7.1 Admission Requirements

Same as M.A. (Thesis) Educational Psychology Major in School/Applied Child Psychology.


18.11.3.8 Ph.D. in Educational Psychology

18.11.3.8.1 Admission Requirements

All doctoral students must have a research supervisor upon entry to the program. Interested candidates should consult the Departmental website for a faculty list: www.mcgill.ca/edu-ecp. 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.

18.11.3.8.2 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 online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/humandev/phd.
Information on application procedures, deadlines, supporting documents, and contact information for the Ph.D. in Educational Psychology: Learning Sciences concentration can be found online in the following section of the Departmental website: www.mcgill.ca/edu-ecp/programs/learningsci/phd.

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

**Application Deadlines**

The application deadlines listed here 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>
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<td>Dec. 15</td>
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<td>Fall: Dec. 15</td>
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<td>Winter</td>
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<td>Summer</td>
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**Educational Psychology and School/Applied Child Psychology programs (M.A., M.Ed., or Ph.D.)**

<table>
<thead>
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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.

**Educational and Counselling Psychology Faculty**

**Chair**

Robert J. Vallerand

**Program Directors**

Marilyn Fitzpatrick – *Counselling Psychology*
Nancy L. Heath – *M.Ed. Concentrations in Educational Psychology*
Alenoush Saroyan – *Health Professions Education*
Alenoush Saroyan – *Learning Sciences*
Steven R. Shaw – *School/Applied Child Psychology*
Victoria Talwar – *Human Development*

**Emeritus Professors**

Mark W. Aulls; B.S. (Ball St.), M.Ed. (Ind.), Ed.D. (Georgia)
**Emeritus Professors**

Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)
Janet G. Donald; B.A., M.A.(W. Ont.), Ph.D.(Tor.)
Carl H. Frederiksen; B.A.(Harv.), M.A., Ph.D.(Ill.)
Lynn McAlpine; B.A.(McG.), M.A.(C'dia), Ph.D.(Tor.)
Eigil Pedersen; B.A.(Sir G. Wms.), M.A.(McG.), Ed.D.(Harv.)
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.

**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.)
Marilyn Fitzpatrick; B.A.(Tor.), M.Ed., 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.)
Robert J. Vallerand; B.Sc.(UQTR), M.A.(McG.), Ph.D.(Montr.)
Cynthia B. Weston; B.A.(G'town), M.L.S.(SUNY), D.Ed(Wash.) (*Director, Teaching and Learning Services*)

**Associate Professors**

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.)
Martin Drapeau; B.A.(Montr.), B.A.Ps.(UQTR), M.P.(Laval), Ph.D.(Montr.) (*FRSQ Chercheur Boursier, Junior 2*)
Michael L. Hoover; B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)
Krista Muis; B.A.(Wat.), M.A.(Vic., BC), Ph.D.(S. Fraser)
Robert Savage; B.A.(Oxf.), M.Sc.(Camb.), M.Sc., Ph.D.(Lond.) (*William Dawson Scholar*)
Steven R. Shaw; B.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.)
Lisa Spanierman; B.Sc.(Flor.), M.A., Ed.M.(Col.), Ph.D.(Missouri)
Ronald Stringer; B.Sc., M.A., Ph.D.(Tor.)
Victoria Talwar; M.A.(St. And.), M.A., Ph.D.(Qu.) (*Canada Research Chair, Tier 2*)

**Assistant Professors**

Armando Bertone; B.A., M.A.(C’dia), M.Ps., Ph.D.(Montr.) (*FRSQ Chercheur Boursier, Junior 1*)
Tara Flanagan; B.A.(Winn.), M.A., Ph.D.(McG.)
Nathan Hall; B.A., M.A., Ph.D.(Manit.)
Annett Körner; M.A., Ph.D.(Leipzig)
Jessica Ruglis; B.S.(Albany), M.A.T.(Union Coll.), M.P.H.(Hunter), Ph.D.(CUNY)
Nathan Smith; M.Sc., Ph.D.(VCU)

**Faculty Lecturer**

Jack de Stefano; B.A.(Loyola), M.Ed., Ed.D.(McG.)

**Associate Members**

Reut Gruber; B.A., M.A., Ph.D.(Tel Aviv) (*Psychiatry*)
Associate Members


Brett D. Thombs; B.A.(Lee'western), 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 Professor (Non-Tenure Track)

Marcia A.B. Delcourt; B.Sc.(Bloomsburg State Univ.), M.A., Ph.D.(Conn.)

Adjunct Professors

Dermot Bowler, Karen Cohen-Gazith, Yves De Roten, Thomas Goetz, Judith Gradinger, Calvin Kalman, Jasvinder Magon, Katherine Moxness, Judith Norton, Rhoda Root, Erica Shoshana Ross, Alissa Sklar, Nathan Grant Smith, Lisa Spanierman, Anastassios Stalikas, Jessica Toste, Helen-Maria Vasiliadis, Harold Wynne

Research Associates, Contract Academic Staff (CAS)

Rina Gupta; B.A., M.A., Ph.D.(McG.)

Diana Tabatabai; B.Sc.(Tehran), M.A.(Tor.), Ph.D.(McG.)

Laura Winer; B.A., M.A., Ph.D.(C'dia) (Teaching and Learning Services)

Research Assistant, Contract Academic Staff (CAS)

Marianne LeBreton; B.A.(Ott.), M.A.(UQAM)

18.11.1.5 Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Professional/Internship (60 credits)

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Internship (24 credits)

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<td>EDPC 678</td>
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<td>EDPC 683</td>
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<td>Practicum in Psychological Testing: Personality Assessment</td>
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<td>EDPC 684</td>
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<td>Practicum in Psychological Testing: Cognitive Assessment</td>
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<td>EDPC 685D1</td>
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Required Courses (33 credits)

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<td>EDPC 607</td>
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<td>EDPC 618</td>
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<td>EDPC 624</td>
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<td>Practicum</td>
</tr>
<tr>
<td>EDPE 622</td>
<td>(3)</td>
<td>Multiculturalism and Gender</td>
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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.

Individual Reading Course (3) EDPC 616
Current Trends in Counselling (3) EDPC 670

18.11.1.6 Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Project (60 credits)
For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (57 credits)

Theories of Intervention 1 (3) EDPC 606
Psychological Testing 1 (3) EDPC 609
Assessment and Diagnosis 1 (3) EDPC 615
Research Project 1 (3) EDPC 619
Research Project 2 (3) EDPC 620
Research Project 3 (3) EDPC 621
Clinic Practicum 1 (6) EDPC 625
Clinic Practicum 2 (6) EDPC 626
Research Project 4 (3) EDPC 628
Research Project 5 (3) EDPC 629
Research Project 6 (3) EDPC 630
Career Psychology (3) EDPC 662
Practicum in Psychological Testing: Personality Assessment (3) EDPC 683
Practicum in Psychological Testing: Cognitive Assessment (3) EDPC 684
Multiculturalism and Gender (3) EDPE 622
Ethical and Professional Practice of Psychology (3) EDPE 627
Intermediate Statistics (3) EDPE 676

Complementary Courses (3 credits)
3 credits from the following:

Univariate/Multivariate Analysis (3) EDPE 682
Qualitative Methods in Educational Psychology (3) EDPE 687

18.11.1.7 Doctor of Philosophy (Ph.D.); Counselling Psychology
For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_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)

Comprehensive Examination (0) EDPC 701
Assessment & Diagnosis 2 (3) EDPC 702
EDPC 714 (3) Theory / Models: Family Therapy
EDPC 720 (3) Consultation and Program Evaluation
EDPC 780 (6) Supervision
EDPC 782 (6) Doctoral Field Experience
EDPC 786 (6) Proposal Preparation and Defense
EDPE 712 (3) Neurological Bases of Behaviour Across Lifespan

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.

18.11.1.8 Doctor of Philosophy (Ph.D.); School/Applied Child Psychology
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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_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
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<tr>
<td>EDSP 715D2</td>
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**Field Placement**

12 credits

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<td>Field Placement 1: School Psychology</td>
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<td>EDSP 722D1</td>
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<td>Field Placement 2: School Psychology</td>
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<tr>
<td>EDSP 722D2</td>
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**Internship (24 credits)**

24 credits

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**Complementary Courses (3 credits)**

3 credits from the following:

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<td>Applied Multivariate Statistics</td>
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<tr>
<td>EDPE 687</td>
<td>(3)</td>
<td>Qualitative Methods in Educational Psychology</td>
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</table>

**18.11.1.9 Post-Ph.D. Graduate Diploma in School/Applied Child Psychology**

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_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.

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<tr>
<th>Course Code</th>
<th>Credits</th>
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<tr>
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<td>(3)</td>
<td>Psychological Testing 1</td>
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<td>EDPC 610</td>
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<td>EDPC 618</td>
<td>(3)</td>
<td>Professional Ethics and the Law</td>
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<tr>
<td>EDPC 682D1</td>
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<td>Practicum: Psychological Testing</td>
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<td>Practicum: Psychological Testing</td>
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<tr>
<td>EDPC 714</td>
<td>(3)</td>
<td>Theory / Models: Family Therapy</td>
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<td>EDPE 619</td>
<td>(3)</td>
<td>Child and Adolescent Therapy</td>
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<tr>
<td>EDPE 625</td>
<td>(3)</td>
<td>Practicum 1: School Psychology</td>
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<tr>
<td>EDPE 626</td>
<td>(3)</td>
<td>Practicum 2: School Psychology</td>
</tr>
<tr>
<td>EDPE 710</td>
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</table>

**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:

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<td>EDPE 722</td>
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<td>School Psychology: Secondary</td>
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<td>EDPE 723</td>
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**Internship**

One year full time or two years half-time

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<tr>
<td>EDPE 726</td>
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<td>Internship 2 - School Psychology</td>
</tr>
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</table>

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.

**18.11.1.10 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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate gps_edu_educational_and_counselling_psychology.

**Required Courses (9 credits)**

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<td>EDPE 602</td>
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<td>Uses of Research Findings in Education</td>
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<tr>
<td>EDPE 635</td>
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<td>Theories of Learning and Instruction</td>
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**Complementary Courses (27 credits)**

27 credits from the following:

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<td>EDPC 502</td>
<td>(3)</td>
<td>Group Processes and Individuals</td>
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<td>EDPC 503</td>
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<td>Human Sexuality: Professionals</td>
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<td>EDPC 504</td>
<td>(3)</td>
<td>Practicum: Interviewing Skills</td>
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<tr>
<td>EDPC 505</td>
<td>(3)</td>
<td>Crisis Intervention Processes</td>
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<td>EDPC 507</td>
<td>(3)</td>
<td>Practicum: Group Leadership Skills</td>
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<td>EDPC 508</td>
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<td>EDPC 510</td>
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<td>EDPE 595</td>
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<td>Research Methods</td>
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</table>
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.

18.11.11 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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (24 credits)

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Complementary Courses (12 credits)

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<td>Promoting Social and Emotional Well-Being</td>
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</table>

**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.

**18.11.1.12 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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

**Required Courses (36 credits)**

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<td>Research Project 1</td>
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**Complementary Courses (12 credits)**

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<td>Gender Identity Development</td>
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<tr>
<td>EDPH 689</td>
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</tbody>
</table>
### 18.11.1.13 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.


#### Required Courses (30 credits)

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#### Complementary Courses (18 credits)

18 credits from the following:

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<td>EDPE 515</td>
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<td>Gender Identity Development</td>
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<td>EDPE 595</td>
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<td>Seminar in Special Topics</td>
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<td>EDPE 640</td>
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<td>Emerging Technologies for Educational Change</td>
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<td>EDPE 676</td>
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<td>EDPE 687</td>
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<tr>
<td>EDPI 526</td>
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<td>Talented and Gifted Students</td>
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</table>
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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (42 credits)

EDPE 502 (3) Theories of Human Development
EDPE 575 (3) Educational Measurement
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
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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (24 credits)

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Complementary Courses (12 credits)

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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.

Master of Arts (M.A.); Educational Psychology (Thesis) — Health Professions Education (48 credits)

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Thesis Courses (24 credits)

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Thesis Courses (24 credits)

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Prerequisite Course (or equivalent) (3 credits)

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Required Courses (12 credits)

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<td>EDPE 637</td>
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<td>Issues in Health Professions Education</td>
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Complementary Courses (12 credits)

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<td>Teaching and Learning in Higher Education</td>
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9 credits from the following:

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<td>Introduction to Learning Sciences</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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<td>EDPE 687</td>
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<td>Qualitative Methods in Educational Psychology</td>
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</table>

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

18.11.1.17 Master of Arts (M.A.); Educational Psychology (Thesis) — Human Development (45 credits)

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.
## Required Courses (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EDPE 632</td>
<td>(3)</td>
<td>Research Seminar</td>
</tr>
<tr>
<td>EDPE 672</td>
<td>(3)</td>
<td>Human Development Seminar 1</td>
</tr>
<tr>
<td>EDPE 673</td>
<td>(3)</td>
<td>Human Development Seminar 2</td>
</tr>
<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>
</tbody>
</table>

## Complementary Courses

### 3-6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDPE 515</td>
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<td>Gender Identity Development</td>
</tr>
<tr>
<td>EDPE 616</td>
<td>(3)</td>
<td>Cognitive Development</td>
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<tr>
<td>EDPE 620</td>
<td>(3)</td>
<td>Developmental Psychopathology</td>
</tr>
<tr>
<td>EDPE 623</td>
<td>(3)</td>
<td>Social-Emotional Development</td>
</tr>
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</table>

### 0-3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 633</td>
<td>(3)</td>
<td>Research Internship 1</td>
</tr>
<tr>
<td>EDPI 642</td>
<td>(3)</td>
<td>Inclusion: Past, Present &amp; Future</td>
</tr>
<tr>
<td>EDPI 665</td>
<td>(3)</td>
<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.

## Master of Arts (M.A.); Educational Psychology (Thesis) — Learning Sciences (45 credits)

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

### Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 604</td>
<td>(3)</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>EDPE 607</td>
<td>(3)</td>
<td>Thesis 2</td>
</tr>
<tr>
<td>EDPE 693</td>
<td>(3)</td>
<td>Thesis 3</td>
</tr>
<tr>
<td>EDPE 694</td>
<td>(3)</td>
<td>Thesis 4</td>
</tr>
<tr>
<td>EDPE 695</td>
<td>(6)</td>
<td>Thesis 5</td>
</tr>
<tr>
<td>EDPE 696</td>
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### Required Courses (12 credits)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>EDPE 605</td>
<td>(3)</td>
<td>Research Methods</td>
</tr>
<tr>
<td>EDPE 666</td>
<td>(3)</td>
<td>Foundations of Learning Science</td>
</tr>
<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>
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</table>

### Complementary Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 555</td>
<td>(3)</td>
<td>Introduction to Learning Sciences</td>
</tr>
<tr>
<td>EDPE 636</td>
<td>(3)</td>
<td>Motivation and Instruction</td>
</tr>
<tr>
<td>EDPE 637</td>
<td>(3)</td>
<td>Issues in Health Professions Education</td>
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</tbody>
</table>
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 687  (3) Qualitative Methods in Educational Psychology

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

**18.11.19 Master of Arts (M.A.); Educational Psychology (Thesis) — School/Applied Child Psychology (78 credits)**


**Thesis Courses (24 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 604</td>
<td>(3)</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>EDPE 607</td>
<td>(3)</td>
<td>Thesis 2</td>
</tr>
<tr>
<td>EDPE 693</td>
<td>(3)</td>
<td>Thesis 3</td>
</tr>
<tr>
<td>EDPE 694</td>
<td>(3)</td>
<td>Thesis 4</td>
</tr>
<tr>
<td>EDPE 695</td>
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<td>Thesis 5</td>
</tr>
<tr>
<td>EDPE 696</td>
<td>(6)</td>
<td>Thesis 6</td>
</tr>
</tbody>
</table>

**Prerequisite Course (or equivalent) (3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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<tbody>
<tr>
<td>EDPE 575</td>
<td>(3)</td>
<td>Educational Measurement</td>
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</table>

**Required Courses (51 credits)**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDPC 609</td>
<td>(3)</td>
<td>Psychological Testing 1</td>
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<tr>
<td>EDPC 610</td>
<td>(3)</td>
<td>Psychological Testing 2</td>
</tr>
<tr>
<td>EDPC 682D1</td>
<td>(3)</td>
<td>Practicum: Psychological Testing</td>
</tr>
<tr>
<td>EDPC 682D2</td>
<td>(3)</td>
<td>Practicum: Psychological Testing</td>
</tr>
<tr>
<td>EDPE 600</td>
<td>(3)</td>
<td>Current Topics: Educational Psychology</td>
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<tr>
<td>EDPE 605</td>
<td>(3)</td>
<td>Research Methods</td>
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<tr>
<td>EDPE 609</td>
<td>(3)</td>
<td>Selected Topics in Educational Psychology</td>
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<td>EDPE 611</td>
<td>(3)</td>
<td>School Psychology Seminar</td>
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<td>EDPE 616</td>
<td>(3)</td>
<td>Cognitive Development</td>
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<tr>
<td>EDPE 619</td>
<td>(3)</td>
<td>Child and Adolescent Therapy</td>
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<td>EDPE 620</td>
<td>(3)</td>
<td>Developmental Psychopathology</td>
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<tr>
<td>EDPE 622</td>
<td>(3)</td>
<td>Multiculturalism and Gender</td>
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<td>EDPE 623</td>
<td>(3)</td>
<td>Social-Emotional Development</td>
</tr>
<tr>
<td>EDPE 627</td>
<td>(3)</td>
<td>Ethical and Professional Practice of Psychology</td>
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<td>EDPE 676</td>
<td>(3)</td>
<td>Intermediate Statistics</td>
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<td>EDPE 682</td>
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<td>Univariate/Multivariate Analysis</td>
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<tr>
<td>EDPI 654</td>
<td>(3)</td>
<td>Instruction/Curriculum Adaptation</td>
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</table>

**Complementary Courses (3 credits)**

3 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 684</td>
<td>(3)</td>
<td>Applied Multivariate Statistics</td>
</tr>
</tbody>
</table>
### 18.11.1.20 Doctor of Philosophy (Ph.D.): Educational Psychology — Human Development

For more information, see http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDPE 632</td>
<td>Research Seminar</td>
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</tr>
<tr>
<td>EDPE 676</td>
<td>Intermediate Statistics</td>
<td>3</td>
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<td>EDPE 682</td>
<td>Univariate/Multivariate Analysis</td>
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</tr>
<tr>
<td>EDPE 683</td>
<td>Human Development Seminar 3</td>
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<td>EDPE 686</td>
<td>Human Development Seminar 4</td>
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</tr>
<tr>
<td>EDPE 708</td>
<td>Comprehensive Examination</td>
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**Complementary Courses (9 credits)**

3-6 credits from:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 616</td>
<td>Cognitive Development</td>
<td>3</td>
</tr>
<tr>
<td>EDPE 620</td>
<td>Developmental Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>EDPE 623</td>
<td>Social-Emotional Development</td>
<td>3</td>
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</table>

0-3 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 633</td>
<td>Research Internship 1</td>
<td>3</td>
</tr>
<tr>
<td>EDPE 634</td>
<td>Research Internship 2</td>
<td>3</td>
</tr>
<tr>
<td>EDPH 689</td>
<td>Teaching and Learning in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDPI 642</td>
<td>Inclusion: Past, Present &amp; Future</td>
<td>3</td>
</tr>
<tr>
<td>EDPI 665</td>
<td>Teaching of Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDPI 756</td>
<td>Internship/Special Needs Education</td>
<td>3</td>
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</table>

3 credits from the following:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE 684</td>
<td>Applied Multivariate Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EDPE 687</td>
<td>Qualitative Methods in Educational Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Or other 600- and 700-level courses offered by the department and with the approval of a Supervisor and Program Director.

### 18.11.1.21 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 http://www.mcgill.ca/study/2014-2015/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

**Required Courses (27 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>EDPE 605</td>
<td>Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>
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
- EDPE 663 (3) Learning Environments
- EDPE 664 (3) Expertise, Reasoning and Problem Solving
- EDPE 668 (3) Advanced Seminar in Learning Sciences

3 credits from the following:

- EDPE 684 (3) Applied Multivariate Statistics
- EDPE 687 (3) Qualitative Methods in Educational Psychology

18.11.2 Information Studies

18.11.2.1 Location

School of Information Studies
3661 Peel Street
Montreal QC H3A 1X1
Canada

Telephone: 514-398-4204
Fax: 514-398-7193
Email: sis@mcgill.ca
Website: www.mcgill.ca/sis

18.11.2.2 About Information Studies

The School of Information Studies is now affiliated with the Faculty of Arts; please consult the Faculty of Arts section 15.11.11: Information Studies section.

18.11.3 Integrated Studies in Education

18.11.3.1 Location

Department of Integrated Studies in Education
Education Building, Room 244
3700 McTavish Street
18.11.3.2 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:

Four graduate certificates (15 credits):

- Graduate Certificate in Educational Leadership 1
- Graduate Certificate in Educational Leadership 2
- Graduate Certificate in Teaching English as a Second Language
- Certificat d'études supérieures en enseignement immersif

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 not being offered in 2014-2015.

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 45-credit thesis or non-thesis program. The two streams—Culture and Values in Education and Teaching, Learning, and Curriculum—reflect 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 stream emphasizes current perspectives on pedagogy and curriculum, teacher education, in-and-out-of-school learning, practitioner research, and classroom practice. Through both of these streams, 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 onto doctoral programs or work in education and non-profit settings. Many in-service teachers take this program for professional development.

section 18.11.3.5: 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 (24 credits). The balance of the program is coursework.

section 18.11.3.6: 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 6 credits of approved coursework 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 18.11.3.7: Master of Arts (M.A.); Education and Society (Thesis) — Mathematics and Science Education (45 credits)**

This MA 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 18.11.3.8: Master of Arts (M.A.); Education and Society (Non-Thesis) (45 credits)**

The M.A. non-thesis option consists mostly of coursework, but includes a project worth 6 credits. This option is less research-oriented than the thesis option and suitable for practitioners interested in professional development with a theoretical orientation.

**section 18.11.3.9: 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 6 credits of approved coursework 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 18.11.3.10: 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 Government) Ministère de l’Éducation, du Loisir et du Sport (MELS) 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.

**Master of Arts in Educational Leadership**

The M.A. in Educational Leadership consists of a 45-credit 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 18.11.3.11: 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 (24 credits). The balance of the program is coursework.

**section 18.11.3.12: 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 6 credits of approved coursework 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 18.11.3.13: Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Coursework (45 credits)**

The M.A. non-thesis option, consisting entirely of coursework, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

**section 18.11.3.14: Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project (45 credits)**

The M.A. non-thesis option – Project consists of both coursework and a project, which is worth 12 credits of the total program. It is less research-oriented than the thesis option and suitable for practitioners interested in professional development with a theoretical orientation.

**section 18.11.3.15: Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project — 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 6 credits of approved coursework 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 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.

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 18.11.3.16: 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 (24 credits). The balance of the program is coursework.

section 18.11.3.17: 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 6 credits of approved coursework 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 18.11.3.18: Master of Arts (M.A.); Second Language Education (Non-Thesis) (45 credits)

The M.A. non-thesis option, consisting entirely of coursework, 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 MELS-identified teachable subject area (Mathematics, Science & Technology, Social Sciences, English, TESL, TFSL). This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Throughout the MATL, emphasis will be on the attainment of the QEP professional competencies, and evidence of mastery of these will be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

section 18.11.3.21: Master of Arts (M.A.) in Teaching and Learning — English or French Second Language (60 credits)

This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Upon completion, students are recommended to the MELS for certification to teach English or French Second Language.  

Note: The French Second Language program is not being offered in 2014-2015.

section 18.11.3.22: Master of Arts (M.A.) in Teaching and Learning — English Language Arts Option (60 credits)

This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Upon completion, students are recommended to the MELS for certification to teach English Language Arts.

section 18.11.3.23: Master of Arts (M.A.) in Teaching and Learning — Mathematics Option (60 credits)

This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Upon completion, students are recommended to the MELS for certification to teach Mathematics.

section 18.11.3.24: Master of Arts (M.A.) in Teaching and Learning — Social Sciences Option (60 credits)

This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Upon completion, students are recommended to the MELS for certification to teach Social Sciences.

section 18.11.3.25: Master of Arts (M.A.) in Teaching and Learning — Science and Technology Option (60 credits)

This 60-credit degree program is comprised of 45 credits of coursework, coupled with 15 credits of internship. Upon completion, students are recommended to the MELS 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 coursework 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 18.11.3.26: 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
section 18.11.3.26: Doctor of Philosophy (Ph.D.); Educational Studies

other sites of teaching and learning. 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.

section 18.11.3.27: 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 coursework 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 18.11.3.28: 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 18.11.3.29: 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 18.11.3.30: Graduate Certificate in 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.

section 18.11.3.31: Graduate Certificate in 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 MELS. Course selection to be approved by Graduate Certificate Program Director.

No course taken in Certificate 1 can be repeated in Certificate 2.

section 18.11.3.32: Graduate Certificate; Teaching English as a Second Language (15 credits)

This 15-credit 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 anywhere 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 numbers warrant.

section 18.11.3.33: Certificat d'études supérieures en enseignement immersif (15 cr édits) (15 credits)

Le certificat d'études supérieures en enseignement immersif vise à faire la formation des enseignants en immersion française tout en abordant les défis pédagogiques reliés à l'enseignement ciblé conjointement sur la langue et le contenu. Ce certificat est destiné à la formation aux enseignants des niveaux primaire et secondaire. À 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. Il propose ensuite une variété de stratégies d'enseignement propices à répondre à ces difficultés et de situations d'apprentissage étayées par les enseignants de manière à dépasser le cloisonnement entre langue et contenu. Il comporte cinq cours obligatoires. La réussite d'un test de français est obligatoire lors de la demande d'admission.

18.11.3.3 Integrated Studies in Education Admission Requirements and Application Procedures

18.11.33.1 Admission Requirements

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) – total score 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
     - PBT (paper-based test) – 580

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.

Normally, 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: [www.mcgill.ca/dise/progs/matl](http://www.mcgill.ca/dise/progs/matl). Applicants to the MATL TESL option are required to pass a written and oral English language proficiency test set by the Department.

- **Certificat d'études supérieures en enseignement immersif** – Applicants are required to pass a written and oral French language proficiency test set by the Department.

Applicants are required to have experience in educational settings (formal or informal).

### 18.11.332 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 section 5.3: Application Procedures for detailed application procedures.

**18.11.332.1 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.
18.11.333 Application Deadlines

The application deadlines listed here 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.


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### Integrated Studies in Education (MATL)

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### Integrated Studies in Education (Certificate in Educational Leadership and Certificat d'études supérieures en enseignement immersif)

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### Integrated Studies in Education (Certificate in Teaching English as a Second Language)

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

18.11.34 Integrated Studies in Education Faculty

**Chair**
Dr. Ralf St. Clair

**Directors of M.A. and Ph.D. Programs**
- Dr. Bronwen Low – Ph.D. program
- Dr. Anila Asghar M.A. programs
- Dr. Caroline Riches – MATL program

**Directors of Graduate Certificates**
- Dr. Lynn Butler-Kisber – Educational Leadership
- Dr. Caroline Riches – Teaching English as a Second Language

**Emeritus Professors**
- Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)
- John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)
Emeritus Professors

Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval)
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.
John Wolforth; B.Sc.(Sheff.), M.A., Ph.D.(Br. Col.)

Professors

Lynn Butler-Kisber; B.Ed., M.Ed.(McG.), Ed.D.(Harv.)
David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas-Austin)
Ratna Ghosh; C.M., B.A.(Calc.), M.A., Ph.D.(Calg.), F.R.S.C. (William C. Macdonald Professor of Education) (James McGill Professor)
Barry Levy; B.A., M.A., B.R.E.(Yeshiva), Ph.D.(NYU)
Roy Lyster; B.A.(Regina), M.A.(Paris VII), B.Ed., M.Ed., Ph.D.(Tor.)
Claudia A. Mitchell; B.A.(Bran.), M.A.(Mt. St. Vin.), Ph.D.(Alta.) (James McGill Professor)
Anthony Paré; B.Ed, M.A., Ph.D.(McG.)
Ralf St. Clair; Ph.D.(Br. Col.), M.A.(Heriot-Watt)
Lise Winer; B.A.(Pitt.), M.A.(Minn.), Cert.Ped.(C'dia), Ph.D.(West Indies)

Associate Professors

Helen Amoriggi; B.Sc., M.A.(Rhode Is.), Ed.D.(Boston)
Anila Asghar; M.S.(Punjab), M.A.(Col.), M.Ed., Ed.D.(Harv.)
Fiona Benson; B.A.(Ott.), M. Ed., Ph.D.(McG.)
Jon G. Bradley; B.A., M.A.(Sir G. Wms.)
Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)
Steven Jordan; B.A.(Kent), M.Sc.(Lond.), Ph.D.(McG.)
Bronwen Low; B.A.(Qu.), M.A.(Br. Col.), Ph.D.(York)
Kevin McDonough; B.A., B.Ed., M.Ed.(Alta.), Ph.D.(III.)
Ronald Morris; B.Ed., M.A., Ph.D.(McG.)
Caroline Riches; B.A., M.Sc.(Alta), Ph.D.(McG.)
Mela Sarkar; B.A., Dip.Ed.(McG.), M.A., Ph.D.(C'dia)
Gale A. Seiler; B.Sc.(Fairleigh Dickinson), M.S.(Montana), Ph.D.(Penn.)
Shaheen Shariff; 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)
Carolyn E. Turner; B.A.(Ariz.), M.Ed., Ph.D.(McG.)
Boyd White; B.A.(Sir G. Wms.), B.F.A.(C'dia), M.F.A.(Inst. Allende, Guanajuato), Ph.D.(C'dia)

Assistant Professors

Spencer Boudreau; B.A.(Don Bosco), B.A., M.A.(Sher.), Ph.D.(C'dia)
Mindy Carter; B.A.(Dal.), B.Ed.(Lake.), M.A.(C'dia), Ph.D.(Br. Col.)
Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)
Marta Kobiela; B.Sc., M.Sc.(Texas A & M), Ph.D.(Vanderbilt)
Assistant Professors
Connie Morrison; B.Ed., B.A.(New Br.), M.A., Ph.D.(Nfld.)
Annie Savard; B.Ed., M.A., Ph.D.(Laval)
Sylvia Sklar; Dip.Ed.(McG.), B.A.(C'dia), M.Ed.(McG.)
Lisa Starr; B.Ed.(Regina), M.A.(Phoenix), Ph.D.(Vic., BC)
Paul Zanazanian; B.A., M.A.(McG.), Ph.D.(Montr.)

Associate Members
Richard Harris, Adrienne Hurley, Lynn McAlpine

Faculty Lecturers
James Howden, Donna-Lee Smith, Lisa Trimble

Adjunct Professors
Colin Lankshear, Robert Sengers, Ruth Sandwell, Ann Smith

18.11.3.5 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) Introduction to Educational Theory and Research
EDEM 690 (3) Research Methods: Philosophy and Practice

Complementary Courses (3 credits)
3 credits selected from one of the following streams below:

Culture and Values in Education Stream
3 credits to be selected from the following:
EDER 607 (3) Values Education: Contemporary Approaches
EDER 608 (3) Educational Implications of Social Theory
EDER 615 (3) Culture, Values and Education

Teaching, Learning, and Curriculum Stream
3 credits to be selected from the following:
EDEC 602 (3) Foundations of Curriculum
EDEC 606 (3) Seminar in Curriculum Inquiry
EDEM 644 (3) Curriculum Development and Implementation

Elective Courses (12 credits)
12 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.
18.11.3.6 Master of Arts (M.A.); Education and Society (Thesis) — Gender and Women’s Studies (45 credits)

**Thesis Courses (24 credits)**

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<tr>
<td>EDEM 623</td>
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<td>Thesis 2</td>
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<tr>
<td>EDEM 699</td>
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<td>Thesis 3</td>
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**Required Courses (9 credits)**

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<td>EDEM 609</td>
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<td>Introduction to Educational Theory and Research</td>
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<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Philosophy and Practice</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
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**Complementary Courses (6 credits)**

6 credits selected as follows:

- 3 credits from the Culture and Values in Education Stream OR the Teaching, Learning, and Curriculum Stream.
- 3 credits selected either by taking WMST 602 or a course at the 500 level or higher on gender/women's issues.

**Culture and Values in Education Stream**

3 credits to be selected from the following:

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<th>Course</th>
<th>Credits</th>
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<tr>
<td>EDER 607</td>
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<tr>
<td>EDER 615</td>
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**Teaching, Learning, and Curriculum Stream**

3 credits to be selected from the following:

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<tbody>
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<td>EDEC 606</td>
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<td>Seminar in Curriculum Inquiry</td>
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<tr>
<td>EDEM 644</td>
<td>3</td>
<td>Curriculum Development and Implementation</td>
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3 credits chosen from the following, must be either:

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<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>WMST 602</td>
<td>3</td>
<td>Feminist Research Symposium</td>
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</table>

or one 3-credit course, at the 500, 600, or 700 level, chosen in consultation with the Thesis Supervisor or Graduate Program Director. Students may take a maximum of 3 credits from outside the Department.

**Elective Courses (6 credits)**

6 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.

18.11.3.7 Master of Arts (M.A.); Education and Society (Thesis) — Mathematics and Science Education (45 credits)

**Thesis Courses (24 credits)**

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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDEM 621</td>
<td>6</td>
<td>Thesis 1</td>
</tr>
<tr>
<td>EDEM 623</td>
<td>6</td>
<td>Thesis 2</td>
</tr>
</tbody>
</table>
Required Courses (15 credits)

EDEC 624 (3) Researching, Teaching, Learning and Teacher Education
EDEC 625 (3) MA Seminar in Math and Science Education 1
EDEC 626 (3) MA Seminar in Math and Science Education 2
EDEM 609 (3) Introduction to Educational Theory and Research
EDPE 676 (3) Intermediate Statistics

Complementary Courses (6 credits)

3 credits of graduate-level courses in curriculum, from the following:

EDEC 606 (3) Seminar in Curriculum Inquiry
EDEM 644 (3) Curriculum Development and Implementation

3 credits of graduate-level courses in theories of learning, from the following:

EDPE 635 (3) Theories of Learning and Instruction
EDTL 500 (3) Applications of Educational Psychology Across Classrooms

18.11.3.8 Master of Arts (M.A.); Education and Society (Non-Thesis) (45 credits)

Research Project (6 credits)

EDER 633 (6) Project

Required Courses (6 credits)

EDEM 609 (3) Introduction to Educational Theory and Research
EDEM 690 (3) Research Methods: Philosophy and Practice

Complementary Courses (3 credits)

3 credits selected from one of the following streams below:

Culture and Values in Education Stream

3 credits selected from the following:

EDER 607 (3) Values Education: Contemporary Approaches
EDER 608 (3) Educational Implications of Social Theory
EDER 615 (3) Culture, Values and Education

Teaching and Learning Curriculum Stream

3 credits to be selected from the following:

EDEC 602 (3) Foundations of Curriculum
EDEC 606 (3) Seminar in Curriculum Inquiry
EDEM 644 (3) Curriculum Development and Implementation
Elective Courses (30 credits)

30 credits at the 500, 600, or 700 level chosen in consultation with the Project Supervisor or Graduate Program Director. Students may take a maximum of 9 credits from outside the Department.

18.11.3.9 Master of Arts (M.A.); Education and Society (Non-Thesis) — Gender and Women's Studies (45 credits)

Research Project (6 credits)

EDER 633 (6) Project

Required Courses (9 credits)

EDEM 609 (3) Introduction to Educational Theory and Research
EDEM 690 (3) Research Methods: Philosophy and Practice
WMST 601 (3) Feminist Theories and Methods

Complementary Courses (6 credits)

6 credits selected as follows:
3 credits from the Culture and Values in Education Stream OR the Teaching, Learning, and Curriculum Stream.
3 credits selected either by taking WMST 602 or a course at the 500 level or higher on gender/women's issues.

Culture and Values in Education Stream

3 credits to be selected from the following:
EDER 607 (3) Values Education: Contemporary Approaches
EDER 608 (3) Educational Implications of Social Theory
EDER 615 (3) Culture, Values and Education

Teaching, Learning, and Curriculum Stream

3 credits to be selected from the following:
EDEC 602 (3) Foundations of Curriculum
EDEC 606 (3) Seminar in Curriculum Inquiry
EDEM 644 (3) Curriculum Development and Implementation

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).

Elective Courses (24 credits)

24 credits at the 500, 600, or 700 level, chosen in consultation with the Project Supervisor or the Graduate Program Director. Students may take a maximum of 12 credits outside the Department.

18.11.3.10 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: Philosophy 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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**18.11.3.11 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) Introduction to Educational Theory and Research
Leadership in Action (3) EDEM 610
Leadership Theory in Education (3) EDEM 673

Complementary Courses (6 credits)
6 credits selected from the following courses:
- EDEM 690 (3) Research Methods: Philosophy 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.

18.11.3.12 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) Introduction to 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:
- EDEM 690 (3) Research Methods: Philosophy 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.

18.11.3.13 Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Coursework (45 credits)

Required Courses (12 credits)
- EDEM 609 (3) Introduction to Educational Theory and Research
- EDEM 610 (3) Leadership in Action
- EDEM 673 (3) Leadership Theory in Education
### Complementary Courses (27 credits)

24 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 603</td>
<td>6</td>
<td>Individual Reading Course</td>
</tr>
<tr>
<td>EDEM 616</td>
<td>3</td>
<td>Individual Reading Course</td>
</tr>
<tr>
<td>EDEM 628</td>
<td>3</td>
<td>Education Resource Management</td>
</tr>
<tr>
<td>EDEM 630</td>
<td>3</td>
<td>Workplace Learning</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>
<tr>
<td>EDEM 664</td>
<td>3</td>
<td>Education and the Law</td>
</tr>
<tr>
<td>EDEM 674</td>
<td>3</td>
<td>Organizational Theory and Education</td>
</tr>
<tr>
<td>EDEM 675</td>
<td>3</td>
<td>Special Topics 1</td>
</tr>
<tr>
<td>EDEM 677</td>
<td>3</td>
<td>Special Topics 2</td>
</tr>
<tr>
<td>EDEM 693</td>
<td>3</td>
<td>School Improvement Approaches</td>
</tr>
</tbody>
</table>

3 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 602</td>
<td>3</td>
<td>Foundations of Curriculum</td>
</tr>
<tr>
<td>EDEC 606</td>
<td>3</td>
<td>Seminar in Curriculum Inquiry</td>
</tr>
<tr>
<td>EDEC 612</td>
<td>3</td>
<td>Media Literacy</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
</tbody>
</table>

### Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

### 18.11.3.14 Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project (45 credits)

#### Research Project (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 625</td>
<td>6</td>
<td>Project 1</td>
</tr>
<tr>
<td>EDEM 627</td>
<td>6</td>
<td>Project 2</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>EDEM 609</td>
<td>3</td>
<td>Introduction to Educational Theory and Research</td>
</tr>
<tr>
<td>EDEM 610</td>
<td>3</td>
<td>Leadership in Action</td>
</tr>
<tr>
<td>EDEM 673</td>
<td>3</td>
<td>Leadership Theory in Education</td>
</tr>
<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Philosophy and Practice</td>
</tr>
</tbody>
</table>

#### Complementary Courses (15 credits)

12 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 603</td>
<td>6</td>
<td>Individual Reading Course</td>
</tr>
<tr>
<td>EDEM 616</td>
<td>3</td>
<td>Individual Reading Course</td>
</tr>
</tbody>
</table>
### 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 660 (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 693 (3) School Improvement Approaches

3 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 602</td>
<td>3</td>
<td>Foundations of Curriculum</td>
</tr>
<tr>
<td>EDEC 606</td>
<td>3</td>
<td>Seminar in Curriculum Inquiry</td>
</tr>
<tr>
<td>EDEC 612</td>
<td>3</td>
<td>Media Literacy</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
</tbody>
</table>

### Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

**18.11.3.15 Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project — Gender and Women's Studies (45 credits)**

### Research Project (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 625</td>
<td>6</td>
<td>Project 1</td>
</tr>
<tr>
<td>EDEM 627</td>
<td>6</td>
<td>Project 2</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>EDEM 609</td>
<td>3</td>
<td>Introduction to Educational Theory and Research</td>
</tr>
<tr>
<td>EDEM 610</td>
<td>3</td>
<td>Leadership in Action</td>
</tr>
<tr>
<td>EDEM 673</td>
<td>3</td>
<td>Leadership Theory in Education</td>
</tr>
<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Philosophy and Practice</td>
</tr>
<tr>
<td>WMST 601</td>
<td>3</td>
<td>Feminist Theories and Methods</td>
</tr>
</tbody>
</table>

### Complementary Courses (15 credits)

9 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 628</td>
<td>3</td>
<td>Education Resource Management</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>
<tr>
<td>EDEM 664</td>
<td>3</td>
<td>Education and the Law</td>
</tr>
<tr>
<td>EDEM 674</td>
<td>3</td>
<td>Organizational Theory and Education</td>
</tr>
<tr>
<td>EDEM 675</td>
<td>3</td>
<td>Special Topics 1</td>
</tr>
</tbody>
</table>
3 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Foundations of Curriculum</td>
</tr>
<tr>
<td>EDEC 606</td>
<td>3</td>
<td>Seminar in Curriculum Inquiry</td>
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<tr>
<td>EDEC 612</td>
<td>3</td>
<td>Media Literacy</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
</tbody>
</table>

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 at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

**18.11.3.16 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, 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.

**Thesis Courses (24 credits)**

<table>
<thead>
<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>
</tr>
<tr>
<td>EDSL 667</td>
<td>6</td>
<td>Thesis Research 2</td>
</tr>
<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>
</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>EDEM 690</td>
<td>3</td>
<td>Research Methods: Philosophy and Practice</td>
</tr>
<tr>
<td>EDPE 575</td>
<td>3</td>
<td>Educational Measurement</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 credits)**

9 credits selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEM 609</td>
<td>3</td>
<td>Introduction to Educational Theory and Research</td>
</tr>
<tr>
<td>EDSL 603</td>
<td>6</td>
<td>Individual Reading Course 1</td>
</tr>
<tr>
<td>EDSL 616</td>
<td>3</td>
<td>Individual Reading Course 2</td>
</tr>
<tr>
<td>EDSL 617</td>
<td>3</td>
<td>Special Topic in Second Language Education</td>
</tr>
<tr>
<td>EDSL 620</td>
<td>3</td>
<td>Critical Issues in Second Language Education</td>
</tr>
<tr>
<td>EDSL 624</td>
<td>3</td>
<td>Educational Sociolinguistics</td>
</tr>
</tbody>
</table>
EDSL 627 (3) Classroom-Centred Second Language Research
EDSL 629 (3) Second Language Assessment
EDSL 630 (3) Qualitative/Ethnographic Methods
EDSL 632 (3) Second Language Literacy Development
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.

18.11.3.17 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 (12 credits)
EDEM 690 (3) Research Methods: Philosophy and Practice
EDPE 575 (3) Educational Measurement
EDSL 623 (3) Second Language Learning
WMST 601 (3) Feminist Theories and Methods

Complementary Courses (9 credits)
6 credits selected from the following courses:
EDEM 609 (3) Introduction to Educational Theory and Research
EDSL 617 (3) Special Topic in Second Language Education
EDSL 620 (3) Critical Issues in Second Language Education
EDSL 624 (3) Educational Sociolinguistics
EDSL 627 (3) Classroom-Centred Second Language Research
EDSL 629 (3) Second Language Assessment
EDSL 630 (3) Qualitative/Ethnographic Methods
EDSL 632 (3) Second Language Literacy Development
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).

18.11.3.18 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)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>EDEM 609</td>
<td>3</td>
<td>Introduction to Educational Theory and Research</td>
</tr>
<tr>
<td>EDEM 690</td>
<td>3</td>
<td>Research Methods: Philosophy and Practice</td>
</tr>
<tr>
<td>EDPE 575</td>
<td>3</td>
<td>Educational Measurement</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
</tr>
</tbody>
</table>

Complementary Courses (15 credits)

15 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>EDSL 603</td>
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<td>Individual Reading Course 1</td>
</tr>
<tr>
<td>EDSL 616</td>
<td>3</td>
<td>Individual Reading Course 2</td>
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<tr>
<td>EDSL 617</td>
<td>3</td>
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<td>EDSL 624</td>
<td>3</td>
<td>Educational Sociolinguistics</td>
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<td>EDSL 629</td>
<td>3</td>
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<tr>
<td>EDSL 632</td>
<td>3</td>
<td>Second Language Literacy Development</td>
</tr>
<tr>
<td>EDSL 651</td>
<td>3</td>
<td>Content-Based L2 Learning</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEAP 642</td>
<td>1</td>
<td>Cornerstones of Academic Writing</td>
</tr>
<tr>
<td>CEAP 643</td>
<td>1</td>
<td>Literature Reviews and Scholarly Niches</td>
</tr>
<tr>
<td>CESL 641</td>
<td>1</td>
<td>Fundamentals of Academic Writing in English</td>
</tr>
<tr>
<td>CESL 690</td>
<td>3</td>
<td>Writing for Graduate Students</td>
</tr>
<tr>
<td>EDEC 635</td>
<td>3</td>
<td>Research Writing</td>
</tr>
</tbody>
</table>

An undergraduate language course (e.g. Spanish, Italian, Japanese).

18.11.3.19 Graduate Student Teaching / M.A. in Teaching and Learning Internship

The Office of Student Teaching (OST) is responsible for arranging the placement and evaluation of all student teachers in supervised Internships.

18.11.3.19.1 Internships

Internships:

- are required courses (with the subject code EDIN) for all students in the M.A. in Teaching and Learning programs;
- are the sole responsibility of the Faculty of Education and are organized by the Office of Student Teaching;
- require that newly admitted and returning students follow registration procedures or risk not being placed in a host school or having their contract approved for Internship;
- are completed in schools within anglophone school boards or private schools in the province of Quebec in the majority of cases, with the exception of the Teaching English as a Second Language option program Internships, which take place in schools within francophone school boards in the province of Quebec;
- are completed in secondary schools;
- require students to be present in the school full-time;
- can be completed using a teaching contract the student has secured, subject to approval (see section 18.11.3.19.3: Placement Options);
are not remunerated for students placed in the classroom of a cooperating teacher;
• could require that students travel some distance to their host school and students should therefore budget time and money for this purpose;
• require that students be placed at host schools for specific periods of time (refer to the OST website or Minerva for exact dates);
• have a concurrent seminar component (see Minerva for date and time);
• may begin before the first day of lectures or end after the last day of lectures;
• may continue during the University-scheduled Study Break in the Winter term;
• may continue through June into the Summer term (refer to the OST website for exact dates).

18.11.192 Registration

Students:
• must be registered for Internship 1 (EDIN 601) on Minerva by the end of July of the first term of the program (see www.mcgill.ca/importantdates);
• must take Internship 1 in the first winter term of the program. The internship can only be deferred by taking an official Leave of Absence from your courses. Valid reasons for a Leave of Absence to be granted by Graduate and Postdoctoral Studies may be consulted here: section 2.2.11: Leave of Absence Status.
• must register for Internship 2 (EDIN 602) on Minerva by the end of April of the preceding academic year (see www.mcgill.ca/importantdates);
• must be in Satisfactory Standing and have satisfied all prerequisite and corequisite course requirements;
• should consult an academic adviser for assistance if required;
• who are registered for Internship will receive instructions for accessing the online Student Teaching Placement Form at their official @mail.mcgill.ca email address. Forms must be submitted by the date indicated in the email.

Minerva does not necessarily prevent students from registering for courses that they should not take. It is the student's responsibility to be aware of prerequisites, corequisites, restrictions, and Faculty regulations that apply to the courses in which they register.

18.11.193 Placement Options

Contract

MATL students who have secured an employment contract for the duration of the Internship can choose to use these hours to fulfill the Internship requirements in their own classroom.
• Consult www.mcgill.ca/ost MATL guidelines for detailed information and to determine if a contract meets the specific Internship requirements.
• Generally, contracts must be for a minimum of 70% of a 100% teaching workload, and a minimum of 60% (Internship 1) or 80% (Internship 2) of these hours must be in your teachable subject in order to be eligible. Students will still complete the full number of required hours as stated in Internship guidelines (available on OST website).
• A copy of the contract or a detailed letter from the HR department or administrator confirming the conditions of employment must be submitted to the OST.
• Modification of contracts, or a request to move from a cooperating teacher’s classroom to a contract must be approved in advance by the OST.

Cooperating Teacher

MATL students who do not have employment that meets these criteria will be placed in the classroom of a cooperating teacher, and will follow the teacher’s full-time schedule. In accordance with University–School Board agreements, students are not permitted to contact teachers or schools to confirm their own arrangements; however, the student can submit suggestions to the OST on the online placement form.

18.11.194 Internship Guidelines (Syllabus)

Detailed guidelines and evaluation forms for each Internship are posted on the OST website. Students are responsible for familiarizing themselves with the objectives, evaluation criteria, and forms for each level of Internship, and must submit all completed evaluation forms to the OST on the first business day following the end of the Internship in order to receive a grade.

18.11.195 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/ost.

Students should not engage in any type of employment during Internship (with the exception of a contract used to fulfill the Internship requirements), nor register for any course that might interfere with the successful outcome of an Internship.

The Faculty of Education relies on the goodwill of teachers and administrators to arrange placements and strives to maintain the professional relationships built up over time with our partner schools. Students in the professional program are making a commitment to their chosen career when beginning their fieldwork; all decisions and actions should reflect the ethics of the teaching profession and a high standard of professionalism.

Attendance and Absences

In case of conflict with school or board HR policies for MATL students who have an employment contract, please contact the OST.

Punctual attendance is required at the assigned school for the entire Internship. Unexcused absences from intensive courses and professional seminars may result in exclusion from the course, course failure, and/or removal from any associated Internship.
Days absent due to illness or McGill exams must be made up at the end of the Internship. Absences due to illness longer than a few days require a valid medical note (see www.mcgill.ca/studenthealth/notes) to be submitted to the OST, and the outcome of the Internship will be evaluated on an individual basis. Student teachers must contact the following people as soon as possible on the morning of the day of their absence:

- School office
- Cooperating teacher, if applicable
- Office of Student Teaching, telephone 514-398-7046
- Field supervisor

Student teachers are permitted to be absent for religious holy days, as outlined in McGill's Policy for the Accommodation of Religious Holy Days; see www.mcgill.ca/importantdates/holy-days-0. Students must notify the OST, cooperating teacher, and field supervisor before the Internship begins if possible, or at least two weeks before the planned absence. The missed days must be made up, usually at the end of the Internship.

Absences related to McGill Intercollegiate Sport events are evaluated by the director of the OST on a case-by-case basis. Student teachers must submit a signed copy of the Intercollegiate Sport Event Accommodation form to the OST at least two weeks in advance of each conflict.

Absences for any other reason, including but not limited to: marriage, family parties, vacation, University extracurricular activities, employment, or conflicting courses, are not permitted during the Internship under any circumstances. Students should consult an academic adviser if they need to rearrange their course schedule.

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 with their request. Anyone unable to obtain the required security clearance will not be permitted to undertake their Internships and consequently would have to withdraw from the program as this is a mandatory requirement of the program. Additional information can be found on the OST website.

Work Permit for International Students

International students (students who are not Permanent Residents or citizens of Canada) must apply for an internship/co-op work permit issued by Citizenship and Immigration Canada as a requirement for their mandatory Internships. This is not the same as an off-campus work permit. The internship/co-op work permit is free of charge, but takes time to obtain and may require a medical exam. Detailed instructions are available on the OST website. For assistance with the application, students should contact International Student Services, www.mcgill.ca/internationalstudents. Students must submit a copy of their valid permit to the OST before the Internship starts.

**1813.196 Grading and Credit**

Internships are graded according to the graduate grading scale (section 2.8: Grading and Grade Point Averages (GPA)). Students must submit all completed evaluation forms to the OST immediately following their Internship, and submit all required work for the professional seminar portion of the Internship to the instructor, in order to receive a grade. Summative evaluations from the cooperating teacher or school administrator and field supervisor are combined with the professional seminar grade to calculate the final grade. Students must pass both the ‘mentored teaching’ and the ‘professional seminar’ portions of the course individually to pass the course as a whole. The passing grade for Internships is B or higher. A grade of B- requires that the student repeat the course. If a grade of F is obtained, the student must withdraw from the MATL program, as described below.

Where a student is experiencing serious pedagogical or professional difficulties in an Internship, the director of the OST will review the case and make one of the following grade decisions:

- If the student has demonstrated some potential to successfully reach the required standard, the director may grant special permission for a student to repeat an Internship during the next term in which the course is offered by awarding the grade of B-. This special permission will be granted once only in a student's program. A subsequent Failure (B- or lower, F, J, KF, WF) in any Internship places a student in Unsatisfactory Standing, requiring withdrawal from the Teacher Education Program.
- Grade of F, placing a student in Unsatisfactory Standing and requiring withdrawal from the Teacher Education Program.

A student may appeal this decision within 30 days by making a formal application to the Associate Dean of Graduate and Postdoctoral Studies for Education.

Withdrawal from Internship

- Withdrawal (with refund) for any reason must be done at least two weeks before the start date of the Internship. The student is responsible for notifying the OST in writing by this deadline.
- Students having to withdraw for any reason, including illness, from an Internship that begins in less than two weeks or that is underway must immediately inform the OST. Based on the circumstances of the withdrawal, the director of the OST will determine the final outcome of the Internship and Enrolment Services will determine eligibility for refund.

Termination of Internship

At any time, students may be removed from their Internship placement at the request of the host school administrator and cooperating teacher, or at the request of the Director of Student Teaching. Students who are removed from an Internship placement will be informed of the reason for the termination and will meet with the Director.

Circumstances that could lead to termination include, but are not limited to:

- Prerequisite courses not successfully completed.
- Exceeding the number of permissible unexcused absences for corequisite courses (consult the syllabus for each course).
- Failure to pass a judicial record check, if required by the school or school board where the student is placed.
Unprofessional behaviour; behaviour that contravenes the Code of Ethics for Student Teachers.

Failure to make the improvements outlined on a Notification of Concern by the date indicated.

The final outcome for an Internship that is terminated will be decided by the director of Student Teaching.

Possible outcomes are:

- Reassignment during the same term, subject to availability of placements
- “W” – Withdrawal (normally without refund)
- B – At the discretion of the director of Student Teaching, the student may be permitted to register for the Internship again during the next regularly scheduled term
- F – Failure and the student is required to withdraw from the program.

If a student cannot continue the Internship due to illness, see Withdrawal from Internship.

If a student chooses to end his or her Internship, the director of Student Teaching will evaluate the circumstances and determine an outcome. Possible outcomes are the same as those listed above.

18113197 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.

18.11.3.20 Master of Arts in Teaching and Learning – Regulations and Programs
18.11.3.20.1 Time Commitment
The M.A. in Teaching and Learning program is designed such that the program may be completed in five or seven consecutive semesters. In all cases, the program begins with mandatory courses in the Summer term. It is important to note the following:
• Internship semesters have 12 or more credits of required corequisite courses.
• Internship placements are completed full-time in a secondary school. See section 18.11.3.19: Graduate Student Teaching / M.A. in Teaching and Learning Internship.
• Summer Institute semesters may have fewer than 12 required credits of courses. Consult the program overview by semester on the Department website at www.mcgill.ca/dise/progs/matl.

Students should consult an academic adviser and program overviews for details. Full-time/part-time status may also affect financial aid arrangements; contact the Scholarships and Student (Financial) Aid Office (section 8.2: Student Services – Downtown Campus) for more information. See section 2.2: Categories of Students for information about full-time and part-time study.

18.11.3.20.2 English Language Requirement
The Ministère de l’Éducation, du Loisir et du Sport (MELS) requires that all students in teacher education programs demonstrate their proficiency in the language of instruction. To fulfill this obligation, M.A. in Teaching and Learning students are required to write the English Examination for Teacher Certification (EETC) before the end of the first summer semester of the program. Students must pass the examination prior to Internship 1.

The examination is coordinated by an independent body, the Centre for the English Exam for Teacher Certification. Information is available on the CEETC website: www.ceetc.ca. 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 $70 fee before writing the test.

Students who do not pass both sections of the examination the first time are expected to meet with their academic adviser 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 adviser about readmission procedures.
18.11.203 Capstone Research Project (CRP)

The CRP is a research project whereby MATL students, as they experience 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, and develop, throughout their program, a project around that interest. The final project is a requirement of the Culminating Professional Seminar course (final summer of program). Guidelines are posted on the Office of Student Teaching website (www.mcgill.ca/ost).

18.11.204 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 Culminating Professional Seminar course (final summer of program). Guidelines are posted on the Office of Student Teaching website (www.mcgill.ca/ost).

18.11.321 Master of Arts (M.A.) in Teaching and Learning — English or French Second Language (60 credits)

**This program is currently not offered.**

This M.A. in Teaching and Learning is a 60-credit, post-graduate degree leading to teacher certification. It comprises 45 credits of courses, coupled with 15 credits (minimum of 630 hours) of internship. This professional program offers teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministère de l’Éducation, du Loisir et du Sport (MELS).

The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. Specific course sequence and progression lead students to complete the program in either four or seven consecutive terms. Alternately, the maximum time for completion of all program requirements is five years.

Throughout the MATL, emphasis will be on the attainment of the Québec Education Program (QEP) professional competencies, and evidence of mastery of these will be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

Required Courses (54 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: Philosophy and Practice</td>
</tr>
<tr>
<td>EDIN 601</td>
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<td>EDPS 600</td>
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<td>EDPS 605</td>
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<td>Culminating Professional Seminar</td>
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<td>EDSL 500</td>
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<td>Foundations and Issues in Second Language Education</td>
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<td>EDSL 505</td>
<td>3</td>
<td>Second Language Acquisition Applied to Classroom Contexts</td>
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<td>3</td>
<td>Applications of Educational Psychology Across Classrooms</td>
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<tr>
<td>EDTL 506</td>
<td>3</td>
<td>Philosophy of Education</td>
</tr>
<tr>
<td>EDTL 508</td>
<td>3</td>
<td>Critical Influences on Educational Praxis</td>
</tr>
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<td>EDTL 515</td>
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<td>English Exam for Teacher Certification</td>
</tr>
<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>
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<td>EDTL 609</td>
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<tr>
<td>EDTL 635</td>
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<td>Applied Methods in Second Language Education</td>
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Complementary Courses (6 credits)

3 credits selected from:

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDEC 612</td>
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<td>Media Literacy</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>3</td>
<td>Meanings of Literacy</td>
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</table>

3 credits selected from (in accordance with teaching English or French as a second language):

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDSL 512</td>
<td>3</td>
<td>Grammar in Teaching English as a Second Language</td>
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</table>
**18.11.3.22 Master of Arts (M.A.) in Teaching and Learning — English Language Arts Option (60 credits)**

This M.A. in Teaching and Learning is a 60-credit, post-graduate degree leading to teacher certification. It comprises 45 credits of courses, coupled with 15 credits (minimum of 630 hours) of internship. This professional program offers teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. Specific course sequence and progression lead students to complete the program in either four or seven consecutive terms. Alternatively, the maximum time for completion of all program requirements is five years. Throughout the MATL, emphasis will be on the attainment of the Quebec Education Program (QEP) professional competencies, and evidence of mastery of these will be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

**Required Courses (51 credits)**

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<thead>
<tr>
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<tbody>
<tr>
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<td>(3)</td>
<td>Applications of Educational Psychology Across Classrooms</td>
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<tr>
<td>EDTL 506</td>
<td>(3)</td>
<td>Philosophy of Education</td>
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<td>(3)</td>
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<td>EDTL 609</td>
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<td>Diverse Learners</td>
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<td>EDTL 629</td>
<td>(3)</td>
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<tr>
<td>EDTL 630</td>
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**Complementary Courses (9 credits)**

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<tbody>
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<td>(3)</td>
<td>Media Literacy</td>
</tr>
<tr>
<td>EDEC 620</td>
<td>(3)</td>
<td>Meanings of Literacy</td>
</tr>
</tbody>
</table>

**Electives (6 credits)**

In consultation with the MATL Program Adviser, students select 6 credits from 500- or 600-level courses related to the English Language Arts subject area or Education. Students who choose to complete the Teaching in Second Language Contexts option must take EDSL 505 and either EDSL 512 or EDSL 515.

**18.11.3.23 Master of Arts (M.A.) in Teaching and Learning — Mathematics Option (60 credits)**

This M.A. in Teaching and Learning is a 60-credit, post-graduate degree leading to teacher certification. It comprises 45 credits of courses, coupled with 15 credits (minimum of 630 hours) of internship. This professional program offers teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. Specific course sequence and progression lead students to complete the program in either four or seven consecutive terms. Alternatively, the maximum time for completion of all program requirements is five years. Throughout the MATL, emphasis will be on the attainment of the Québec Education Program (QEP) professional competencies, and evidence of mastery of these will be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

**Required Courses (54 credits)**

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<td>EDIN 601</td>
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<td>Internship 1</td>
</tr>
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</table>

McGill University, Graduate and Postdoctoral Studies, 2014-2015 (Published July 31, 2014)
EDIN 602  (10)  Internship 2
EDPS 600  (1)  Introductory Professional Seminar
EDPS 605  (1)  Culminating Professional Seminar
EDSL 500  (3)  Foundations and Issues in Second Language Education
EDTL 500  (3)  Applications of Educational Psychology Across Classrooms
EDTL 506  (3)  Philosophy of Education
EDTL 508  (3)  Critical Influences on Educational Praxis
EDTL 515  (0)  English Exam for Teacher Certification
EDTL 520  (3)  Perspectives on Knowledge in Mathematics and Science
EDTL 601  (3)  Cross-curricular Teaching Methods
EDTL 604  (3)  Techniques for Assessment
EDTL 609  (3)  Diverse Learners
EDTL 628  (3)  Advanced Methods in Teaching Mathematics in Sec. School

Complementary Courses (3 credits)
3 credits selected from:
EDEC 612  (3)  Media Literacy
EDEC 620  (3)  Meanings of Literacy

Electives (3 credits)
In consultation with the MATL Program Adviser, students select 3 credits from 500- or 600-level courses related to the mathematics or education subject area. Students may elect to take EDSL 505 to add to their knowledge in Teaching in Second Language Contexts.

18.11.3.24 Master of Arts (M.A.) in Teaching and Learning — Social Sciences Option (60 credits)
This M.A. in Teaching and Learning is a 60-credit, post-graduate degree leading to teacher certification. It comprises 45 credits of courses, coupled with 15 credits (minimum of 630 hours) of internship. This professional program offers teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministère de l’Éducation, du Loisir et du Sport (MELS). The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. Specific course sequences and progressions lead students to complete the program in either four or seven consecutive terms. Alternatively, the maximum time for completion of all program requirements is five years. Throughout the MATL, emphasis will be on the attainment of the Québec Education Program (QEP) professional competencies, and evidence of mastery of these will be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

Required Courses (48 credits)
EDEM 690  (3)  Research Methods: Philosophy and Practice
EDIN 601  (9)  Internship 1
EDIN 602  (10)  Internship 2
EDPS 600  (1)  Introductory Professional Seminar
EDPS 605  (1)  Culminating Professional Seminar
EDSL 500  (3)  Foundations and Issues in Second Language Education
EDTL 500  (3)  Applications of Educational Psychology Across Classrooms
EDTL 506  (3)  Philosophy of Education
EDTL 508  (3)  Critical Influences on Educational Praxis
EDTL 515  (0)  English Exam for Teacher Certification
EDTL 601  (3)  Cross-curricular Teaching Methods
EDTL 604  (3)  Techniques for Assessment
Complementary Courses (6 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 from:

- EDEC 612 (3) Media Literacy
- EDEC 620 (3) Meanings of Literacy

Electives (6 credits)

In consultation with the MATL Program Adviser, students select 6 credits from 500- or 600-level courses related to Education, or to their Social Sciences subject area (History & Citizenship AND Geography OR Ethics & Religious Culture). Students who choose to complete the Teaching in Second Language Contexts option must take EDSL 505 and either EDSL 512 or EDSL 515.

18.11.3.25 Master of Arts (M.A.) in Teaching and Learning — Science and Technology Option (60 credits)

This M.A. in Teaching and Learning is a 60-credit, post-graduate degree leading to teacher certification. It comprises 45 credits of courses, coupled with 15 credits (minimum of 630 hours) of internship. This professional program offers teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. Specific course sequence and progression leads students to complete the program in either four or seven consecutive terms. Alternatively, the maximum time for completion of all program requirements is five years. Throughout the MATL, emphasis will be on the attainment of the Québec Education Program (QEP) professional competencies, and evidence of mastery of these must be demonstrated in order for students to successfully complete the program. Upon completion, students are recommended to the MELS for certification.

Required Courses (57 credits)

- EDEM 690 (3) Research Methods: Philosophy and Practice
- EDIN 601 (9) Internship 1
- EDIN 602 (10) Internship 2
- EDPS 600 (1) Introductory Professional Seminar
- EDPS 605 (1) Culminating Professional Seminar
- EDSL 500 (3) Foundations and Issues in Second Language Education
- EDTL 500 (3) Applications of Educational Psychology Across Classrooms
- EDTL 506 (3) Philosophy of Education
- EDTL 508 (3) Critical Influences on Educational Praxis
- EDTL 515 (0) English Exam for Teacher Certification
- EDTL 520 (3) Perspectives on Knowledge in Mathematics and Science
- EDTL 525 (3) Teaching Science and Technology
- EDTL 601 (3) Cross-curricular Teaching Methods
- EDTL 604 (3) Techniques for Assessment
- EDTL 609 (3) Diverse Learners
- EDTL 625 (3) Applied Methods in Teaching Science in Secondary School
- EDTL 626 (3) Advanced Applied Methods in Teaching Science in Sec. School

Complementary Courses (3 credits)
3 credits selected from:

- EDEC 612 (3) Media Literacy
- EDEC 620 (3) Meanings of Literacy

18.11.3.26 Doctor of Philosophy (Ph.D.); Educational 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 (8 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

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:

- 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

**Elective Courses**

0-12 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.

Student's admitted to Ph.D. 2 will normally take up to four 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 four 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: Philosophy 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) Educational Measurement
18.11.3.27 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 700</td>
<td>Proseminar in Education 1</td>
<td>2</td>
</tr>
<tr>
<td>EDEC 701</td>
<td>Ph.D. Comprehensive Examination</td>
<td>0</td>
</tr>
<tr>
<td>EDEC 702</td>
<td>Proseminar in Education 2</td>
<td>2</td>
</tr>
<tr>
<td>EDEC 703</td>
<td>Ph.D. Colloquium</td>
<td>4</td>
</tr>
<tr>
<td>WMST 601</td>
<td>Feminist Theories and Methods</td>
<td>3</td>
</tr>
<tr>
<td>WMST 602</td>
<td>Feminist Research Symposium</td>
<td>3</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 (6 credits)

One of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 705</td>
<td>Advanced Research Designs</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 706</td>
<td>Textual Approaches to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 707</td>
<td>Interpretive Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>EDEM 692</td>
<td>Qualitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDSL 630</td>
<td>Qualitative/Ethnographic Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

18.11.3.28 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 Language Acquisition Program (LAP) 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>Title</th>
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<tr>
<td>EDEC 700</td>
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<td>2</td>
</tr>
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<td>EDEC 701</td>
<td>Ph.D. Comprehensive Examination</td>
<td>0</td>
</tr>
<tr>
<td>EDEC 702</td>
<td>Proseminar in Education 2</td>
<td>2</td>
</tr>
<tr>
<td>EDEC 703</td>
<td>Ph.D. Colloquium</td>
<td>4</td>
</tr>
</tbody>
</table>
Complementary Courses

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.

EDPE 676 (3)  Intermediate Statistics
EDPE 682 (3)  Univariate/Multivariate Analysis
PSYC 650 (3)  Advanced Statistics 1
PSYC 651 (3)  Advanced Statistics 2

9 credits selected from the following list; at least one course must be outside the Department of Integrated Studies in Education:

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 620 (3)  Critical Issues in Second Language Education
EDSL 623 (3)  Second Language Learning
EDSL 624 (3)  Educational Sociolinguistics
EDSL 627 (3)  Classroom-Centred Second Language 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
PSYC 561 (3)  Methods: Developmental Psycholinguistics
PSYC 734 (3)  Developmental Psychology and Language
PSYC 736 (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

18.11.3.29 Doctor of Philosophy (Ph.D.); Educational Studies — Mathematics and Science Education

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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 624</td>
<td>3</td>
<td>Researching, Teaching, Learning and Teacher Education</td>
</tr>
<tr>
<td>EDEC 700</td>
<td>2</td>
<td>Proseminar in Education 1</td>
</tr>
<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>EDEC 708</td>
<td>3</td>
<td>PhD Seminar in Math and Science Education 1</td>
</tr>
<tr>
<td>EDEC 709</td>
<td>3</td>
<td>PhD Seminar in Math and Science Education 2</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**

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 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>
</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 Code</th>
<th>Credits</th>
<th>Course 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.

**18.11.3.30 Graduate Certificate in 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 Code</th>
<th>Credits</th>
<th>Course 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>
</tbody>
</table>
EDEM 637  (3)  Managing Educational Change
EDEM 644  (3)  Curriculum Development and Implementation
EDEM 646  (3)  Planning and Evaluation

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

18.11.3.31 Graduate Certificate in 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 609  (3)  Introduction to Educational Theory and Research
- 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 1
- 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.

18.11.3.32 Graduate Certificate; 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
18.11.3.33 Certificat d’études supérieures en enseignement immersif (15 crédits) (15 credits)

Le certificat d’études supérieures en enseignement immersif 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 (15 crédits)

EDSL 505 (3) Second Language Acquisition Applied to Classroom Contexts
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

18.11.4 Kinesiology and Physical Education

18.11.4.1 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: eileen.leduc@mcgill.ca
Website: www.mcgill.ca/edu-kpe

18.11.4.2 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 Programs

In Exercise Physiology, research is being conducted on obesity treatment, public health surveillance, and health disparities; biology and physiology of aging skeletal muscle; adaptive plasticity of skeletal muscle in health, disease, and aging; the role of mitochondria in skeletal muscle health, disease, and aging; interventions to protect and/or restore mass and function of aging muscle; biology and physiology of the aging heart; clinical and integrative exercise and cardio-respiratory physiology; COPD research; and muscle physiology and biophysics.

Other research in Biomechanics includes specialization in ergonomics, motor control, fatigue, and musculoskeletal disorders; locomotion and gait research; applied ice hockey research; and neurophysiology and rehabilitation.

In Exercise and Health Psychology, research is presently underway examining the 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; and physical education and health development.

In Sports Psychology, research questions examine determinants of coaching expertise, team building, psychology of athletic injuries (concussions), and hockey violence.

Research in Adapted Physical Activity examines issues of self-regulation of individuals with movement difficulties, physical activity in persons with attention-deficit hyperactivity disorder (ADHD), play and movement skill proficiency, perceptions and professional skill development of physical education teachers, motor behaviour, and autism.

Ph.D. (Ad Hoc)

The Department of Kinesiology and Physical Education also offers the possibility of directly entering a Ph.D. program 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 master’s program to the ad hoc Ph.D. program.
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. Researchers in our program have their own research facilities. These research programs often lead to pursuits in research and teaching careers, or in professional careers in kinesiology. For example, many students pursue careers in fitness/wellness, exercise rehabilitation settings, and sport science settings. Students may become teachers, health club directors, work in cardiac rehabilitation centres, and/or become exercise prescription counsellors.

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.

**18.11.4.3 Kinesiology and Physical Education Admission Requirements and Application Procedures**

**18.11.4.3.1 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.

**18.11.4.3.2 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 [section 5.3: Application Procedures](#) for detailed application procedures.

**18.11.4.3.3 Application Deadlines**

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Feb. 15</td>
<td>Fall: Feb. 15</td>
<td>Fall: June 30</td>
</tr>
<tr>
<td>Winter: Sept. 1</td>
<td>Winter: Sept. 1</td>
<td>Winter: Sept. 1</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

**18.11.4.4 Kinesiology and Physical Education Faculty**

**Chair**

René A. Turcotte

**Emeritus Professor**

Greg Reid; B.Ed.(McG.), M.S.(Calif.), Ph.D.(Penn. St.)

**Graduate Program Director**

David J. Pearsall

**Professors**

Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple) (*Canada Research Chair*)

Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)

**Associate Professors**

Gordon Bloom; B.Ed.(W. Ont.), M.A.(York), Ph.D.(Ott.)

Julie Côté; B.Sc., M.Sc.(Wisc.-Madison), Ph.D.(Montr.)
## Associate Professors
- Enrique Garcia; B.P.E., I.N.E.F.(Madrid), M.Sc.(Laval), Ph.D.(Alta.)
- William Harvey; B.Ed., M.A., Ph.D. (McG.)
- Russell T. Hepple; B.Sc.(Sask.), M.Sc., Ph.D.(Tor.)
- David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)
- Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.)
- Tanja Taivassalo; B.Sc., Ph.D.(McG.)
- René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.)

## Assistant Professors
- Lindsay Duncan; B.A., M.A., Ph.D.(W. Ont.)
- Dennis Jensen; B.P.E.(Brock), M.Sc., Ph.D.(Qu.)
- Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)
- Shane Sweet; B.A., Ph.D.(Ott.)

## Faculty Lecturer
- Celena Scheede-Bergdahl; B.Sc.(C'dia), M.Sc.(Montr.), Ph.D.(Copen.)

## Adjunct Professors
- Bernard Aguilaniu; M.D., Ph.D.(Grenoble)
- François Peronnet; M.Sc., Ph.D.(Montr.) (Emeritus Professor)
- Ruddy Richard; M.D.(Université Louis Pasteur Strasbourg), Ph.D.(Université Paris Descartes)
- Catherine M. Sabiston; B.Sc.K.(Dal.), M.H.K.(Windsor), Ph.D.(Br. Col.)

## Associate Members
- Jean Bourbeau; M.D.(Laval)

### 18.11.4.5 Master of Arts (M.A.); Kinesiology and Physical Education (Thesis) (45 credits)

#### Thesis Courses (24 credits)
- EDKP 691 (6) Thesis Research 1
- EDKP 692 (6) Thesis Research 2
- EDKP 693 (6) Thesis Research 3
- EDKP 694 (6) Thesis Research 4

#### Required Courses (6 credits)
- EDKP 605 (3) Research Methods 1
- EDKP 617 (0) Seminar in Kinesiology and Physical Education 1
- EDKP 618 (0) Seminar in Kinesiology and Physical Education 2
- EDKP 619 (0) Seminar in Kinesiology and Physical Education 3
- EDKP 620 (0) Seminar in Kinesiology and Physical Education 4
- EDPE 676 (3) Intermediate Statistics

#### 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.

EDKP 504 (3) Health & Lifestyle Education
EDKP 603 (6) Individual Reading Course 1
EDKP 616 (3) Individual Reading Course 2
EDKP 648 (3) Physical Activity Psychology
EDKP 650 (3) Research in Physical Education Pedagogy
EDKP 654 (3) Sport Psychology
EDKP 655 (3) Inclusive Physical Activity
EDKP 664 (3) Motor Learning
EDKP 665 (3) Motor Behaviour and Disability
EDKP 671 (3) Experimental Problems
EDKP 672 (6) Experimental Problems
EDKP 695 (3) Thesis Research 5
EDKP 696 (3) Thesis Research 6

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).

18.11.4.6 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)
EDKP 691 (6) Thesis Research 1
EDKP 692 (6) Thesis Research 2
EDKP 693 (6) Thesis Research 3
EDKP 694 (6) Thesis Research 4

Required Courses (6 credits)
EDKP 605 (3) Research Methods 1
EDKP 617 (0) Seminar in Kinesiology and Physical Education 1
EDKP 618 (0) Seminar in Kinesiology and Physical Education 2
EDKP 619 (0) Seminar in Kinesiology and Physical Education 3
EDKP 620 (0) Seminar in Kinesiology and Physical Education 4
EDPE 676 (3) Intermediate Statistics

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.

EDKP 542 (3) Environmental Exercise Physiology
EDKP 566 (3) Advanced Biomechanics Theory
EDKP 603 (6) Individual Reading Course 1
EDKP 616 (3) Individual Reading Course 2
EDKP 630 (3) Human Walking Mechanics
EDKP 635 (3) Modeling Human Movement
Students may also take courses from the Faculty of Science chosen in consultation with the adviser (500, 600, or 700 level).

18.11.4.7 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>Educational Measurement</td>
</tr>
<tr>
<td>EDSL 630</td>
<td>3</td>
<td>Qualitative/Ethnographic Methods</td>
</tr>
</tbody>
</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 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 648</td>
<td>3</td>
<td>Physical Activity Psychology</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>
</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).

**18.11.4.8 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)**

EDKP 608 (15) Special Project

**Required Courses**

EDKP 617 (0) Seminar in Kinesiology and Physical Education 1
EDKP 618 (0) Seminar in Kinesiology and Physical Education 2
EDKP 619 (0) Seminar in Kinesiology and Physical Education 3
EDKP 620 (0) Seminar in Kinesiology and Physical Education 4

**Complementary Courses (18 credits)**

6 credits, two courses from the following:
Note: Students may take either EDSL 630 or EDEM 692.

EDEM 692 (3) Qualitative Research Methods
EDKP 605 (3) Research Methods 1
EDPE 575 (3) Educational Measurement
EDSL 630 (3) Qualitative/Ethnographic Methods

12 credits chosen from the following:

EDKP 542 (3) Environmental Exercise Physiology
EDKP 566 (3) Advanced Biomechanics Theory
EDKP 603 (6) Individual Reading Course 1
EDKP 616 (3) Individual Reading Course 2
EDKP 630 (3) Human Walking Mechanics
EDKP 635 (3) Modeling Human Movement
EDKP 640 (3) Advanced Ergonomics
EDKP 652 (3) Cardio-Respiratory Exercise Physiology
EDKP 662 (3) Nerve/Muscle Exercise Response
EDKP 664 (3) Motor Learning
EDKP 665 (3) Motor Behaviour and Disability
EDKP 671 (3) Experimental Problems
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).
19.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

19.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

19.4 Graduate Studies at a Glance

Please refer to the eCalendar’s University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

19.5 Program Requirements

19.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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 expecting to enrol in Professional Corporations in the province of Quebec are advised to become fluent in both spoken and written French. Candidates are advised to discharge their language requirements as early in their program as possible. 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). All particular instances another language may be necessary. Language requirements for the Ph.D. degree are met through demonstrated reading knowledge. The usual languages are French, German, or Russian, but in many 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 form 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.cagps/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/gradthesis/guidelines.

19.5.3 **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 and contact the relevant department.

19.5.4 **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/gradstudents/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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

19.6 **Graduate Admissions and Application Procedures**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

19.7 **Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.
19.8 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.

19.8.1 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.).

19.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.
   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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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.
19.8.3 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

19.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.cagps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

19.8.5 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.
19.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

19.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

19.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

19.11.1 Architecture

19.11.1.1 Location

School of Architecture
Macdonald-Harrington Building
815 Sherbrooke Street West
Montreal QC H3A 2K6
Canada

Telephone: 514-398-6700
Fax: 514-398-7372
Website: www.mcgill.ca/architecture

19.11.1.2 About Architecture

M.Arch. (Professional) (Non-Thesis), M.Arch. (Post-professional) (Non-Thesis), Ph.D.

The 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) and Design Studio Directed Research (60 credits). 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.

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. There are three areas of study in the M.Arch. (Post-professional) and Ph.D. programs: Architectural History and Theory; Cultural Mediations and Technology; and 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 five-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: Design Studio (45 credits) and Design Studio Directed Research (60 credits).

section 19.11.1.5: Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio (45 credits)

The Design Studio concentration is a 45-credit three-term (Fall, Winter, and Fall) program based on a design-intensive professional curriculum and centred on the traditional design studio. Students work in a traditional studio format for the first two terms and with individual advisers in the 9-credit terminal design project course in the third term. Complementary and elective course offerings are organized to provide flexibility in individual program design and provide opportunities for students to both explore the discipline and develop concentrations in subject areas related to research and design interests. For further information regarding admission eligibility and requirements, please see: www.mcgill.ca/architecture/programs/professional.

section 19.11.1.6: Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio-Directed Research (60 credits)

The Design Studio Directed Research concentration is a 60-credit four-term (Fall, Winter, Summer, Fall) program that complements the regular 45-credit three-term concentration with a two-term project-based investigation divided into two parts. The first part is a supervised 12-credit individual research project that leads to a comprehensive research report, and the second is a 9-credit research and design exercise that forms the basis of the terminal design studio in the fourth term. Students registered in this concentration are assigned a faculty adviser in the second term and follow 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 30 credits of coursework, to be completed in the first two terms, and a 15-credit research report (Cultural Mediations and Urban Design and Housing), or 15-credit project (Architectural History and Theory) that is completed in the Summer term. The residence requirement for the M.Arch. (Post-professional) degree is three academic terms, making it possible for students to obtain their degree after 12 calendar months in the program.

section 19.11.1.7: Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Architectural History and 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 19.11.1.8: Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Cultural Mediations and Technology (45 credits)

Culture + Media is a platform for inquiry into architecture as a mode of cultural production and media environment. Students in this option study architecture using concepts and theories from the history of architecture and from other fields, including social sciences, material culture, visual culture, and media and...
section 19.11.1.8: Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Cultural Mediations and Technology (45 credits)

Technology studies. It encourages transdisciplinary research methods for investigations into spatial practices. The option takes a broad view of what counts as architecture, with attention to the varied roles of the architect within such an expanded field.

section 19.11.1.9: 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 + 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.

Ph.D. in Architecture

section 19.11.1.10: 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 adviser 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.

19.11.1.3 Architecture Admission Requirements and Application Procedures

19.11.1.3.1 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.

19.11.1.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

19.11.1.3.2.1 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 six (6) months of work experience is required. Further information and guidelines are provided here: www.mcgill.ca/architecture/bboard/bsmail/workexperience. Please use the following: Work Experience Form [.pdf] .

  **Note:** 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.
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 the following webpages: www.mcgill.ca/gradapplicants/apply/ready/uapply/submit/upload and www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents
• Two confidential letters of reference are required for your application. Once you have identified your referees (you must provide a valid institutional e-mail address for each referee), McGill will send them an e-mail 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 the following webpage: www.mcgill.ca/gradapplicants/apply/prepare/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 School of Architecture. 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 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.

* These documents are available in PDF or DOC format on the School of Architecture website.

19.11.1.33 Application Deadlines

The application deadlines listed here are set by the 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.
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.

**19.11.1.4 Architecture Faculty**

**Director**

Annamarie Adams

**Graduate Program Directors**

Martin Bressani (*Post-professional program*)

David Covo (*Professional program*)

**Emeritus Professors**

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 Zak; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(U.A.A), F.R.A.I.C., O.A.Q., O.A.A.

**Professors**

Annamarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*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**

Martin Bressani; B.Sc., B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris-Sorbonne – Paris IV), O.A.Q.

Ricardo L. Castro; B.Arch.(Los Andes, Col.), M.Arch., M.A.(Ore.), F.R.A.I.C.

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.


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**

David Newton; B.Sc.(Design)(Ariz. St.), M.Arch.(Rice)

Aaron Sprecher; B.Arch.(Bezalel), M.Arch.(Calif.-LA)

Ipek Türel; B.Arch.(Istanbul), A.A.Dipl.(A.A.), Ph.D.(Calif., Berk.)

**Adjunct Professors**

Sinisha Brdar, Howard Davies, Talia Dorsey, Julia Gersovitz, Phyllis Lambert, Maria Mingallon, Mark Poddubiuk, Pierina Saia, Conor Sampson

**Course Lecturers**

Thierry Beaudoin, Nancy Dunton, Eric Gauthier, Marc Hallé, Andrew King, Matthew Lella, Leslie Lok, Marc-André Plourde, Sevag Pogharian, Pieter Sijpkes, Victor Simion
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 centered 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)

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<th>Course Code</th>
<th>Credits</th>
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<tr>
<td>ARCH 550</td>
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<tr>
<td>ARCH 672</td>
<td>(6)</td>
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<td>ARCH 673</td>
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<td>ARCH 674</td>
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<td>ARCH 677</td>
<td>(9)</td>
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<tr>
<td>ARCH 678</td>
<td>(3)</td>
</tr>
<tr>
<td>ARCH 680</td>
<td>(2)</td>
</tr>
</tbody>
</table>

ARCH 550  Urban Planning and Development
ARCH 672  Architectural Design 1
ARCH 673  Architectural Design 2
ARCH 674  Professional Practice 1
ARCH 677  Architectural Design 3
ARCH 678  Advanced Construction
ARCH 680  Field Sketching

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>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 523</td>
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<tr>
<td>ARCH 525</td>
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<tr>
<td>ARCH 531</td>
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<td>ARCH 532</td>
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<td>ARCH 626</td>
<td>(4)</td>
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<tr>
<td>ARCH 684</td>
<td>(4)</td>
</tr>
<tr>
<td>ARCH 685</td>
<td>(4)</td>
</tr>
</tbody>
</table>

ARCH 523  Significant Texts and Buildings
ARCH 525  Seminar on Analysis and Theory
ARCH 531  Architectural Intentions Vitruvius - Renaissance
ARCH 532  Origins of Modern Architecture
ARCH 626  Critical Design Strategies
ARCH 684  Contemporary Theory 1
ARCH 685  Contemporary Theory 2

Group B:

0-10 credits chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 512</td>
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<tr>
<td>ARCH 514</td>
<td>(4)</td>
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<td>ARCH 515</td>
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<td>ARCH 520</td>
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<td>ARCH 541</td>
<td>(3)</td>
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<tr>
<td>ARCH 622</td>
<td>(3)</td>
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</tbody>
</table>

ARCH 512  Architectural Modelling
ARCH 514  Community Design Workshop
ARCH 515  Sustainable Design
ARCH 520  Montreal: Urban Morphology
ARCH 521  Structure of Cities
ARCH 526  Philosophy of Structure
ARCH 527  Civic Design
ARCH 528  History of Housing
ARCH 529  Housing Theory
ARCH 533  New Approaches to Architectural History
ARCH 540  Selected Topics in Architecture 1
ARCH 541  Selected Topics in Architecture 2
ARCH 622  Critical Writing
ARCH 626  Critical Design Strategies
ARCH 679 (3)  Writing in Architecture
ARCH 684 (4)  Contemporary Theory 1
ARCH 685 (4)  Contemporary Theory 2

Note: Courses taken are to be used to fulfill 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.

19.11.1.6 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)

ARCH 550 (3)  Urban Planning and Development
ARCH 626 (4)  Critical Design Strategies
ARCH 672 (6)  Architectural Design 1
ARCH 673 (6)  Architectural Design 2
ARCH 674 (3)  Professional Practice 1
ARCH 676 (12)  Directed Research Report
ARCH 678 (3)  Advanced Construction
ARCH 680 (2)  Field Sketching
ARCH 683 (9)  Directed Research Project 2

Complementary Courses
(9-12 credits)

Group A:
3-12 credits chosen from the following courses:

ARCH 523 (3)  Significant Texts and Buildings
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 534 (3) Architectural Archives
ARCH 535 (3) History of Architecture in Canada
ARCH 536 (3) Heritage Conservation
ARCH 540 (3) Selected Topics in Architecture 1
ARCH 541 (3) Selected Topics in Architecture 2
ARCH 554 (2) Mechanical Services
ARCH 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 (3) 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.

19.11.1.7 Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Architectural History and Theory (45 credits)
The program consists of three semesters of coursework to be completed in 12 months. Intensive weekly seminars held during the first two terms focus on architectural history and theory. ARCH 623 (Project Preparation), taken during the second semester, culminates in a project. The studio themes engage urban issues critically, raising questions of program, form, and representation. A final document includes the project plus three papers.

Research Project (15 credits)
ARCH 624 (15) History and Theory Project

Required Courses (30 credits)
19.11.1.8 Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Cultural Mediations and Technology (45 credits)

Drawing on methods in philosophy, media studies, cultural landscapes, vernacular architecture studies, and material culture, students in this option study the ways in which we conceptualize and realize the built world. How are architectural practices mediated by their broader contexts?

This option capitalizes on the expertise of the architect-researcher to move freely between art and science and between content-based and empirical research, and to facilitate robust interdisciplinary teams of engineers, technologists, media artists, and social scientists to understand, explain, and create today’s built environments.

Research Report (15 credits)

ARCH 629 (15) Cultural Mediations and Technology Research Report

Required Courses (15 credits)

ARCH 623 (3) Project Preparation
ARCH 627 (4) Research Methods for Architects
ARCH 684 (4) Contemporary Theory 1
ARCH 685 (4) Contemporary Theory 2

Complementary Courses (15 credits)

15 credits of courses at the 500 level or higher, approved by an adviser.

19.11.1.9 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)

ARCH 632 (15) Urban Design and Housing Research Report

Required Courses (21 credits)

ARCH 602 (4) Housing Seminar
ARCH 603 (6) Urban Design and Housing Studio
ARCH 604 (4) Urban Design Seminar
ARCH 623 (3) Project Preparation
ARCH 627 (4) Research Methods for Architects

Group A Complementary Courses (9 credits)

6-9 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 Complementary Courses**
0-3 credits from any courses at the 500 level or higher, approved by an adviser.

**19.11.10 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) Comprehensive Oral Examination
- ARCH 702 (0) Progress Report 1
- ARCH 703 (0) Progress Report 2

**19.11.2 Chemical Engineering**

**19.11.2.1 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@mccgill.ca
Website: www.mcgill.ca/chemeng

**19.11.2.2 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, FQRNT, 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 biological 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, and 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 an extensive research effort related to energy including 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; and oil and gas flow assurance; as well as 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 contaminated 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; and 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 Kelvins (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 Laboratory, which forms one of the founding groups of the Plasma-Québec Centre.

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**section 19.11.2.5: 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 19.11.2.6: 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 19.11.2.7: Master of Engineering (M.Eng.); Chemical Engineering (Non-Thesis) — Environmental Engineering (45 credits)**

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 19.11.2.8: 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.
19.11.2.3 Chemical Engineering Admission Requirements and Application Procedures

19.11.2.3.1 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 with each component score not less than 20 (577 on the paper-based test) 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.

19.11.2.3.2 Application Procedure

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

19.11.2.3.2.1 Additional Requirements

- Reference Letter – Ph.D. applicants must submit a letter of recommendation from their master's research supervisor.

19.11.2.3.3 Application Deadlines

The application deadlines listed here are set by graduate departments, 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: Jan. 15</td>
<td>Summer: Jan. 15</td>
<td>Summer: Jan. 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.

19.11.2.4 Chemical Engineering Faculty

Chair

S. Coulombe

Emeritus Professors

J.M. Dealy; B.S.(Kansas), M.S.E., Ph.D.(Mich.), Eng.
M.R. Kamal; B.S.(Ill.), M.S., Ph.D.(Carn. Mell), Eng.
R.J. Munz; B.A.Sc.(Wat.), Ph.D.(McG.)

Professor

S. Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), Eng.
S. Omanovic; B.Sc., Ph.D.(Zagreb)
A.D. Rey; B.Ch.E.(CCNY), Ph.D.(Calif.) (James McGill Professor)

Associate Professors

D. Berk; B.Sc.(Bosphorus), M.E.Sc.(W. Ont.), Ph.D.(Calg.), P.Eng.
R.J. Hill; B.E.(Auck.), Ph.D.(Cornell) (CRC-Tier II)
R.L. Leask; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Tor.), P.Eng. (William Dawson Scholar)
M. Maric; B.Eng.Mgt.(McM.), Ph.D.(Minn.), P.Eng.
Associate Professors

P. Servio; B.A.Sc., Ph.D.(Br. Col.) (CRC-Tier II)
N. Tufenkji; B.Eng.(McG.), M.Sc., Ph.D.(Yale), Jr. Eng. (CRC-Tier II)
V. Yargeau; B.Ch.E., M.Sc.A., Ph.D.(Sher.), Eng.

Assistant Professors

P.-L. Girard-Lauriault; B.Sc.(Montr.), Ph.D.(École Poly., Montr.)
J. Gostick; B.Eng.(Ryerson), M.A.Sc., Ph.D.(Wat.)
C. Hoesli; B.Sc., B.A.Sc.(Ott.), Ph.D.(Br. Col.)
A. Kietzig; Dipl.Ing.(TU Berlin), Ph.D.(Br. Col.)
J. Kopyscinski; Dipl.Ing.(BTU Cottbus), Dr.Sc.(ETH Zurich)
C. Moraes; B.A.Sc., Ph.D.(Tor.)

19.11.2.5 Master of Engineering (M.Eng.); Chemical Engineering (Thesis) (45 credits)

Thesis Courses (31 credits)

CHEE 697 (6) Thesis Proposal
CHEE 698 (12) Thesis Research 1
CHEE 699 (13) Thesis Research 2

Required Courses (2 credits)

CHEE 681 (1) Laboratory Safety 1
CHEE 682 (1) Laboratory Safety 2

Complementary Courses (12 credits)

3-4 credits of Chemical Engineering courses at the 500, 600, or 700 level.
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

4-5 credits of Chemical Engineering or other Engineering or Science courses at the 500, 600, or 700 level.

19.11.2.6 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.

19.11.2.7 Master of Engineering (M.Eng.); Chemical Engineering (Non-Thesis) — Environmental Engineering (45 credits)

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)**

URBP 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.

19.11.2.8 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 Name</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 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>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEE 611</td>
<td>4</td>
<td>Heat and Mass Transfer</td>
</tr>
<tr>
<td>CHEE 621</td>
<td>4</td>
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<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: 8 credits from the list, if taken during the Ph.D. program, can be used to meet the first coursework requirement of 6-8 credits of Chemical Engineering courses.

19.11.3 Civil Engineering and Applied Mechanics

19.11.3.1 Location

Department of Civil Engineering and Applied Mechanics
Macdonald Engineering Building, Room 492
817 Sherbrooke Street West
19.11.3.2 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.

\textbf{section 19.11.3.5: Master of Engineering (M.Eng.); Civil Engineering (Thesis) (45 credits)}

Students obtain a deeper understanding of their area of specialty through courses selected with their supervisor. A two- to three-semester independent research project is undertaken in the field of structures and structural materials; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

\textbf{section 19.11.3.6: Master of Science (M.Sc.); Civil Engineering (Thesis) (45 credits)}

Candidates with a bachelor's degree in a discipline other than Engineering, such as Science or Arts, may be accepted into an M.Sc. program in the Department. Such students would typically study in the fluid mechanics, water resources, environmental engineering, or transportation engineering areas, and would follow the thesis option program.

\textbf{section 19.11.3.7: Master of Engineering (M.Eng.); Civil Engineering (Non-Thesis) (45 credits)}

This is primarily a coursework degree with a small independent project.

\textbf{section 19.11.3.8: Master of Engineering (M.Eng.); Civil Engineering (Non-Thesis) — Environmental Engineering (45 credits)}

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.

\textbf{section 19.11.3.9: Doctor of Philosophy (Ph.D.); Civil Engineering}

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.

19.11.3.3 Civil Engineering and Applied Mechanics Admission Requirements and Application Procedures

\textbf{19.11.3.1 Admission Requirements}

The general rules of Graduate and Postdoctoral Studies apply and are detailed in \textit{section 5: 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 the TOEFL (Test of English as a Foreign Language; preferably the Internet-based test) or the IELTS (International English Language Testing System). Ph.D. applicants must achieve a minimum overall score of 92 (or minimum 580 on the paper-based test), with a minimum score of 20 for each component (i.e., Writing, Reading, Speaking, Listening); or, achieve a minimum band score of 7 for the IELTS in order to apply. Master's applicants must achieve an overall minimum TOEFL score of 86 (or minimum 567 on the paper-based test), with a minimum score of 20 for each component; or, achieve a minimum band score of 6.5 for the IELTS 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 about the test, and a registration form, may be obtained by consulting the TOEFL or the IELTS websites.

19.11.3.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

19.11.3.3.3 Application Deadlines

The application deadlines listed here 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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<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
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<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td></td>
</tr>
</tbody>
</table>

Note: Applications for Summer term admission will not be considered.

19.11.3.4 Civil Engineering and Applied Mechanics Faculty

Chair
V.T.V. Nguyen

Chair of Graduate Program
L. Chouinard

Emeritus Professors
S.B. Savage; B.Eng.(McG.), M.S.Eng.(Cal. Tech.), Ph.D.(McG.), F.R.S.C.

Professors
V.H. Chu; B.S.Eng.(Taiwan), M.A.Sc.(Tor.), Ph.D.(MIT), Eng.
D. Mitchell; B.A.Sc., M.A.Sc., Ph.D.(Tor.), F.A.C.I., Eng.
J. Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.
S.C. Shrivastava; B.Sc.(Eng.)(Vikram), M.C.E.(Del.), Sc.D.(Col.)

Associate Professors
S.J. Gaskin; B.Sc.(Eng.)(Qu.), Ph.D.(Cant.), Eng.
R. Gehr; B.Sc.(Eng.)(Witw.), M.A.Sc., Ph.D.(Tor.), P.Eng.
S. Ghoshal; B.C.E.(Jadavpur), M.S.(Missouri), Ph.D.(Carn. Mell), P.Eng.
M.A. Meguid; B.Sc.(Cairo), M.Sc., Ph.D.(W. Ont.), P.Eng
C. Rogers; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Syd.), P.Eng.
Y. Shao; B.Sc., M.S.(Tongji), Ph.D.(Nwestern), P.Eng.
**Assistant Professors**

N. Eluru; B.Sc.(Indian IT), M.Sc. Ph.D.(Texas-Austin)

D. Frigon; B.Sc., M.Sc.(McG.), Ph.D.(Ill.-Urbana-Champaign)

T. Gleeson; B.Sc.(Vic., BC), M.Sc.(S. Fraser), Ph.D.(Qu.)

M. Hatzopoulou; B.Sc., M.Sc.(Beirut), Ph.D.(Tor.)

D. Lignos; B.Sc.(Nat. Tech., Athens), M.Sc., Ph.D.(Stan.)

J. Liu; BE/ME(Tianjin), ME(Renselaer Poly.), Ph.D.(Purd.)

L. Miranda-Moreno; B.Sc., M.Eng.(Mexico), Ph.D.(Wat.)

**Adjunct Professors**


**19.11.3.5 Master of Engineering (M.Eng.); Civil 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>CIVE 630</td>
<td>(3)</td>
<td>Thesis Research 1</td>
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<tr>
<td>CIVE 631</td>
<td>(3)</td>
<td>Thesis Research 2</td>
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<td>(3)</td>
<td>Thesis Research 3</td>
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<td>(6)</td>
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<td>CIVE 634</td>
<td>(6)</td>
<td>Thesis Research 5</td>
</tr>
<tr>
<td>CIVE 635</td>
<td>(6)</td>
<td>Thesis Research 6</td>
</tr>
</tbody>
</table>

**Required Course**

1 credit:

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 662</td>
<td>(1)</td>
<td>Masters Research Seminar</td>
</tr>
</tbody>
</table>

**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.

**19.11.3.6 Master of Science (M.Sc.); Civil 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>CIVE 630</td>
<td>(3)</td>
<td>Thesis Research 1</td>
</tr>
<tr>
<td>CIVE 631</td>
<td>(3)</td>
<td>Thesis Research 2</td>
</tr>
<tr>
<td>CIVE 632</td>
<td>(3)</td>
<td>Thesis Research 3</td>
</tr>
<tr>
<td>CIVE 633</td>
<td>(6)</td>
<td>Thesis Research 4</td>
</tr>
<tr>
<td>CIVE 634</td>
<td>(6)</td>
<td>Thesis Research 5</td>
</tr>
<tr>
<td>CIVE 635</td>
<td>(6)</td>
<td>Thesis Research 6</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>CIVE 662</td>
<td>(1)</td>
<td>Masters Research Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (17 credits)**
A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

**19.11.3.7 Master of Engineering (M.Eng.); Civil Engineering (Non-Thesis) (45 credits)**

**Research Project**  
(5-15 credits)  
Credit for the project may vary between 5 and 15 credits, depending on the amount of work involved. Project courses are chosen from the following:

- CIVE 691 (1) Research Project 1
- CIVE 692 (2) Research Project 2
- CIVE 693 (3) Research Project 3
- CIVE 694 (4) Research Project 4
- CIVE 695 (5) Research Project 5
- CIVE 696 (6) Research Project 6
- CIVE 697 (7) Research Project 7

**Complementary Courses**  
(30-40 credits)  
A minimum of 30 credits at the 500 or 600 level, with at least 8 credits at the 600 level.

**19.11.3.8 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.

19.11.3.9 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.

19.11.4 Electrical and Computer Engineering

19.11.4.1 Location
Department of Electrical and Computer Engineering
McConnell Engineering Building, Room 602
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
19.11.4.2 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: Bio-Electrical Engineering; Telecommunications and Signal Processing; Systems and Control; Integrated Circuits and Systems; Nano-Electronic Devices and Materials; Photonics Systems; Computational Electromagnetics; Power Engineering; Intelligent Systems; and 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 Circuits and Systems Laboratory (ICaS) 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/gpsfunding/students-postdocs, or contact:

Graduate and Postdoctoral Studies, McGill University
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC, H3A 0G4

section 19.11.4.5: Master of Engineering (M.Eng.); Electrical Engineering (Thesis) (46 credits)

The Master of Engineering degree (thesis option) involves six graduate 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 19.11.4.6: Master of Engineering (M.Eng.); Electrical Engineering (Thesis) — Computational Science and Engineering (47 credits)

This program is under review for 2014–2015 and may not be offered. Please inquire.
section 19.11.4.3: Master of Engineering (M.Eng.); Electrical Engineering (Non-Thesis) (47 credits)

The Master of Engineering degree (project option) involves nine graduate 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. Undertaking nine courses 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.

section 19.11.4.4: 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.

19.11.4.3 Electrical and Computer Engineering Admission Requirements and Application Procedures

19.11.4.3.1 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: www.mcgill.ca/ece/admissions/graduate/process. Official results must be received before the application deadlines.

GRE Requirement: Applicants who have not completed a degree (undergraduate or graduate) in Canada must provide a GRE score on the General Aptitude Test. Applicants must achieve a combined score of at least 1100 on the verbal and quantitative sections and a minimum score of 3.5/6.0 on the analytical writing assessment section of the GRE General Test, or score at least 145/170 on the verbal section, 155/170 on the quantitative section and 3.5/6.0 on the analytical writing assessment of the GRE Revised General Test.

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 or Computer Engineering or a closely allied field. An applicant holding a degree in another field of engineering or science will be considered but a Qualifying year may be given 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. 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.

19.11.4.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: 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.

19.11.4.3.2.1 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/process/apply)
- GRE: the General Aptitude Test is required by all students who have not completed their undergraduate or graduate degree in Canada.

19.11.4.3.3 Application Deadlines

The application deadlines listed here are set by the Electrical and Computer Engineering 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.
### 19.11.4.4 Electrical and Computer Engineering Faculty

#### Chair
Andrew Kirk

#### Graduate Program Director
Richard Rose

#### Emeritus Professors
- Eric L. Adler; B.Sc.(Lond.), M.A.Sc.(Tor.), Ph.D.(McG.), F.I.E.E.E., Eng.
- Clifford H. Champness; M.Sc.(Lond.), Ph.D.(McG.)
- Gerry W. Farnell; B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), F.I.E.E.E., Eng.
- Peter Kabal; B.A.Sc., M.A.Sc., Ph.D.(Tor.)
- Lorne Mason; M.Eng., Ph.D.(Sask.)

#### Professors
- Peter E. Caines; B.A.(Oxf.), D.I.C., Ph.D.(Lond.), F.R.S.C., F.I.E.E.E., F.C.I.A.R. (*James McGill Professor and Macdonald Professor*)
- Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.)
- Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.)
- James Clark; B.Sc., Ph.D.(Br. Col.)
- Frank Ferrie; B.Eng., Ph.D.(McG.)
- Geza Joos; B.Sc.('C'dia), M.Eng., Ph.D.(McG.) (*CRC Chair*)
- Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.) (*William Dawson Scholar*)
- Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)
- Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F.I.E.E.E.
- David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F.C.A.E., Eng. (*James McGill Professor*)
- Gordon Roberts; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.), F.I.E.E.E., Eng. (*James McGill Professor*)
- Jonathan P. Webb; B.A., Ph.D.(Cant.)

#### Associate Professors
- Tal Arbel; M.Eng., Ph.D.(McG.)
- Jan Bajcsy; B.Sc.(Harv.), M.Eng., Ph.D.(Princ.)
- Benoit Boulet; B.Sc.(Laval), M.Eng.(McG.), Ph.D.(Tor.) (*William Dawson Scholar*)
- Vamsy Chodavarapu; B.Eng.(Osmania), M.S., Ph.D.(NYU)
- Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.)
- Jeremy R. Cooperstock; A.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)
- Mourad El-Gamal; B.Sc.(Cairo), M.Sc.(Nashville), Ph.D.(McG.) (*William Dawson Scholar*)
- Dennis Giannacopoulos; M.Eng., Ph.D.(McG.)
**Associate Professors**

Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.)

Roni Khazaka; M.Eng., Ph.D.(Car.)

Fabrice Labeau; M.S., Ph.D.(Louvain)

Steve McFee; B.Eng., Ph.D.(McG.)

Zetian Mi; B.A.Sc.(Beijing), M.Sc.(Iowa), Ph.D.(Mich.)

Hannah Michalska; B.Sc., M.Sc.(Warsaw), Ph.D.(Lond.)

Sam Musallam; B.Sc., M.Sc., Ph.D.(Tor.)

Milica Popovich; B.Sc.(Colo.), M.Sc., Ph.D.(N’western)

Ioannis Psaromiligkos; B.Sc.(Patras), M.Sc., Ph.D.(Buffalo)

Michael Rabbat; B.S.(Ill.), M.S.(Rice), Ph.D.(Wisc.)

Martin Rochette; B.A., M.Eng., Ph.D.(Laval)

Richard Rose; B.Sc., M.S.(Ill.), Ph.D.(GIT)

Ishiang Shih; M.Eng., Ph.D.(McG.)

Thomas Szkopek; B.A.Sc., M.A.Sc.(Tor.), Ph.D.(Calif.-LA)

Zeljko Zilic; B.Eng.(Zagreb), M.Sc., Ph.D.(Tor.)

**Assistant Professors**

François Bouffard; B.Eng., Ph.D.(McG.)

Odile Liboiron-Ladouceur; B.Eng.(McG.), M.Sc., Ph.D.(Colo.)

Aditya Mahajan, B.Tech.(Indian IT), M.S., Ph.D.(Mich.)

Brett Meyer; B.S.(Wisc.), M.S., Ph.D.(Cam. Mell)

Gunter Mussbacher; Ph.D.(Ott.)

Haibo Zeng; B.E., M.E.(Tsinghua), M.S., Ph.D.(Calif., Berk.)

**Associate Members**


**Adjunct Professors**


19.11.4.5 Master of Engineering (M.Eng.); Electrical Engineering (Thesis) (46 credits)

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</th>
<th>Credits</th>
<th>Description</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>
</tr>
<tr>
<td>ECSE 694</td>
<td>4</td>
<td>Thesis Research 4</td>
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<td>ECSE 695</td>
<td>4</td>
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</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 minimum)

At least six 500-, 600-, or 700-level courses, normally with a minimum of four ECSE 500- or 600-level courses.*

* Under special circumstances, and subject to Departmental approval, students may be allowed to take more than two non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

Under no circumstances will more than three non-Departmental courses be permitted.

**19.11.4.6 Master of Engineering (M.Eng.); Electrical Engineering (Thesis) — Computational Science and Engineering (47 credits)**

**This program is under review and currently not offered.**

**Thesis Courses (28 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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>
</tr>
<tr>
<td>ECSE 694</td>
<td>4</td>
<td>Thesis Research 4</td>
</tr>
<tr>
<td>ECSE 695</td>
<td>4</td>
<td>Thesis Research 5</td>
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<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>

**Required Course (1 credit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECSE 670D1</td>
<td>.5</td>
<td>Computational Science Engineering Seminar</td>
</tr>
<tr>
<td>ECSE 670D2</td>
<td>.5</td>
<td>Computational Science Engineering Seminar</td>
</tr>
</tbody>
</table>

**Complementary Courses (18 credits)**

(minimum 18 credits)

Six courses at the graduate level (500 or above) are required (minimum 18 credits), with a grade of B- or better. Two courses (minimum 6 credits) from List A, and two courses (minimum 6 credits) from List B. At least two of the courses taken from Lists A and B must be from outside the Department of Electrical and Computer Engineering.

**List A: Scientific Computer 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 514</td>
<td>3</td>
<td>Structural Mechanics</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>
</tbody>
</table>
COMP 558 (3) Fundamentals of Computer Vision
COMP 567 (3) Discrete Optimization 2
COMP 621 (4) Program Analysis and Transformations
COMP 642 (4) Numerical Estimation Methods
COMP 767 (4) Advanced Topics: Applications 2
ECSE 507 (3) Optimization and Optimal Control
ECSE 532 (3) Computer Graphics
ECSE 547 (3) Finite Elements in Electrical Engineering
ECSE 549 (3) Expert Systems in Electrical Design
MATH 555 (4) Fluid Dynamics
MATH 560 (4) Optimization
MATH 761 (4) Advanced Topics in Applied Mathematics 1
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 576 (3) Geometry in Mechanics
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

19.11.4.7 Master of Engineering (M.Eng.); Electrical Engineering (Non-Thesis) (47 credits)
Full-time students must complete the program in three years. A part-time program is possible. The following requirements must be met:

Research Project
(11-20 credits)
The credits assigned to the project can vary between 11 and 20 depending on the number of course credits taken from the following courses:

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 (5) M.Eng. Project 5
ECSE 656 (5) 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
At least nine 500-, 600-, or 700-level courses, normally with a minimum of six 500- or 600-level courses (ECSE only).*

* Under special circumstances, and subject to Departmental approval, students may be allowed to take more than three non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

Under no circumstance will more than four non-Departmental courses be permitted.

19.11.4.8 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECSE 701</td>
<td>Ph.D. Qualifying Examination</td>
<td>0</td>
</tr>
<tr>
<td>ECSE 702</td>
<td>Ph.D. Research Plan Proposal</td>
<td>0</td>
</tr>
<tr>
<td>ECSE 703</td>
<td>Doctoral Research Seminar</td>
<td>0</td>
</tr>
</tbody>
</table>

In addition to the successful completion of the required courses above, students must complete the courses prescribed by the student's Supervisory Committee.

19.11.5 Mechanical Engineering

19.11.5.1 Location

Department of Mechanical Engineering
Macdonald Engineering Building
817 Sherbrooke Street West, Room MD-270
Montreal QC H3A 0C3
Canada

Telephone (Admissions & Scholarships): 514-398-8869
Telephone (All other inquiries): 514-398-6281
Fax: 514-398-7365

Email (Admissions & Scholarships): grad.mecheng@mcgill.ca
Email (All other inquiries): gradcoordinator.mecheng@mcgill.ca
Website: www.mcgill.ca/mecheng/grad

19.11.5.2 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 five areas:

- aerodynamics, fluids, and thermal engineering
- mechanics of materials and structures
- dynamics and control
- design and manufacturing
- bioengineering

Within these areas, specific topics of research are given in the following:

Aerodynamics, fluids, and thermal engineering
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.

Mechanics of materials and structures
Composite materials: structural design, analysis, manufacturing, and processing; micro/nano mechanics; MEMS/NEMS; adaptronic structures; thermomechanics, wave propagation, and computational mechanics.

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.

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.

Bioengineering
Biomechanics, biomaterials, blood and respiratory flows, mechanics of soft tissues, cardiovascular devices, image processing for medical diagnostics, voice production.

Programs Offered
The Department offers programs 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 19.11.5.5: Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) (45 credits)
The M.Eng. (Thesis) program requires the completion of 16 credits 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 19.11.5.6: Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) — Computational Science and Engineering (46 credits)
For students who would like to concentrate on computational work for their research, the M.Eng. (Thesis) – Computational Science and Engineering (CSE) option is available. 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. In this program, students choose their complementary courses from within a list of scientific computing courses and courses that involve applications and specialized methods.

section 19.11.5.7: Master of Engineering (M.Eng.); Mechanical Engineering (Non-Thesis) (45 credits)
Students in this program must complete four required courses in addition to 16 credits of 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 19.11.5.8: 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 a minimum of 45 credits, including 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
section 19.11.5.8: Master of Engineering (M.Eng.); Aerospace Engineering (Non-Thesis) (45 credits)

4. Virtual Environment

section 17.13.4: 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 19.11.5.10: Master of Science (M.Sc.); Mechanical Engineering (Thesis) (45 credits)

Please consult the Department for more information on this program.

section 19.11.5.11: 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.

19.11.5.3 Mechanical Engineering Admission Requirements and Application Procedures

19.11.5.3.1 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 M.Eng. (Aerospace) program must hold an undergraduate degree (or equivalent) in 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 580 on the paper-based test, with a minimum of 4.0 on the “Test of Written English”); or a minimum overall band of 7.0 on the IELTS test.

19.11.5.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Please consult www.mcgill.ca/mecheng/grad for further details on required application documents.

19115321 Additional Requirements

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

- two official Referee Reports
- Personal Statement – one page
- Curriculum Vitae – please include a list of publications, if relevant
- proof of French proficiency (for Aerospace program only)
19.11.5.3.3 Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
</tr>
</tbody>
</table>

Please also consult the Departmental website for the application deadlines: www.mcgill.ca/mecheng/grad/date.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

19.11.5.4 Mechanical Engineering Faculty

Chair
A.K. Misra

Graduate Program Director
D.L. Frost

Graduate Admissions and Scholarships Director
S. Nadarajah

Graduate Aerospace Director
M. Legrand; M.Eng., Ph.D. (EC-Nantes)

Emeritus Professors
A.M. Ahmed; B.Sc. (Dhaka), Ph.D. (McG.), ing. (Thomas Workman Emeritus Professor of Mechanical Engineering)
R. K unstautas; B.Eng., M.Eng., Ph.D. (McG.), ing.
S.J. Price; B.Sc., Ph.D. (Brist.), P.Eng.

Post-Retirement
G. Bach; B.Sc. (Alta.), M.Sc. (Birm.), Ph.D. (McG.)
V. Thomson; B.Sc. (Windsor), Ph.D. (McM.)
P.J. Zsombor-Murray; B.Eng., M.Eng., Ph.D. (McG.), ing., F.C.S.M.E.

Professors
M. Amabili; M.Sc. (Ancona), Ph.D. (Bologna), F.A.S.M.E. (Canada Research Chair)
B.R. Baliga; B.Tech. (I.I.T. Kanpur), M.Sc. (Case West.), Ph.D. (Minn.)
J.H.S. Lee; B.Eng.(McG.), M.Sc. (MIT), Ph.D. (McG.), ing., F.R.S.C., F.C.A.E.
L. Mongeau; B.Sc., M.Sc. (École Poly., Montr.), Ph.D. (Penn St.), ing. (Canada Research Chair)
**Professors**

M. Nahon; B.Sc.(Qu.), M.Sc.(Tor.), Ph.D.(McG.), ing., A.F.A.I.A.A.

I. Sharf; B.A.Sc., Ph.D.(Tor.)

**Associate Professors**

F. Barthelat; M.Sc.(Roch.), Ph.D.(N'western)


L. Corteleezzi; M.Sc., Ph.D.(Calif. Tech.)


A.J. Higgins; B.Sc.(Ill.), M.S., Ph.D.(Wash.)

M. Kokkolaras; Dipl.Ing.(TUM), Ph.D.(Rice)


T. Lee; M.S.(Portland St.), Ph.D.(Idaho)

L. Lessard; B.Eng.(McG.), M.Sc., Ph.D.(Stan.), ing.

R. Mongrain; B.Sc., M.Sc.(Montr.), Ph.D.(École Poly., Montr.), ing. (William Dawson Scholar)

L. Mydilarsi; B.Sc.(Wat.), Ph.D.(Cornell)

S. Nadarajah; B.Sc.(Kansas), M.S., Ph.D.(Stan.)

D. Pasini; M.Sc.(Pavia), Ph.D.(Brist.), ing.

P. Radziszewski; B.Sc.(Br. Col.), M.Sc., Ph.D.(Laval), ing.


S. Vengallatore; B.Tech.(B.H.U), Ph.D.(MIT) (Canada Research Chair)

**Assistant Professors**

X. Liu; B.Eng., M.Eng.(Harbin), Ph.D.(Tor.)

A. Paranjape; B.Tech. (I.I.T. Bombay), Ph.D.(Ill.-Urbana-Champaign)

Y.F. Zhao; B.Eng.(B.I.T.), M.Eng., Ph.D.(Auck.)

**Non-Tenure-Track Faculty**

H. Attia, A. Sabih, D. Zorbas

**19.11.5.5 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</th>
<th>Credits</th>
<th>Description</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</th>
<th>Credits</th>
<th>Description</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.

19.11.5 Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) — Computational Science and Engineering (46 credits)

Thesis Courses (28 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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 complete in the first term of the student's program.

Required Courses (2 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 609</td>
<td>1</td>
<td>Seminar</td>
</tr>
<tr>
<td>MECH 669</td>
<td>1</td>
<td>Computational Science Engineering Seminar</td>
</tr>
</tbody>
</table>

Complementary Courses (16 credits)
A minimum of 16 credits (500 level or above), at least 8 of which must be from within the Faculty of Engineering. Two courses (minimum 6 credits) from List A, and two courses (minimum 6 credits) from List B. At least two of the courses taken from Lists A and B must be from outside the Department of Mechanical Engineering. FACC courses will not count toward the complementary course credits.

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>
</tbody>
</table>
ECSE 547  (3)  Finite Elements in Electrical Engineering
ECSE 549  (3)  Expert Systems in Electrical Design
MATH 555  (4)  Fluid Dynamics
MATH 560  (4)  Optimization
MATH 761  (4)  Advanced Topics in Applied Mathematics 1
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 576  (3)  Geometry in Mechanics
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

19.11.5.7 Master of Engineering (M.Eng.); Mechanical Engineering (Non-Thesis) (45 credits)

Research Project (13 credits)

MECH 603  (9)  M. Eng. Project 1
MECH 604  (3)  M. Eng. Project 2
MECH 609  (1)  Seminar

Note: Industrial liaison is encouraged in these courses taken near the end of the program.

Required Courses (16 credits)

MECH 605  (4)  Applied Mathematics 1
MECH 610  (4)  Fundamentals of Fluid Dynamics
MECH 632  (4)  Advanced Mechanics of Materials
MECH 642  (4)  Advanced Dynamics

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.

19.11.5.8 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 Code</th>
<th>Credits</th>
<th>Course Name</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.

**19.11.5.9 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>
<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 Name</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 Name</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:

- 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

19.11.5.10 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.

19.11.5.11 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 700</td>
<td>(0)</td>
<td>Ph.D. Literature Review</td>
</tr>
<tr>
<td>MECH 701</td>
<td>(0)</td>
<td>Ph.D. Thesis Proposal</td>
</tr>
<tr>
<td>MECH 702</td>
<td>(0)</td>
<td>Ph.D. Comprehensive Preliminary Oral Examination</td>
</tr>
</tbody>
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### 19.11.6 Mining and Materials Engineering

#### 19.11.6.1 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  
Telephone: 514-398-2215  
Fax: 514-398-7099

Materials Engineering  
Telephone: 514-398-4383  
Fax: 514-398-4492

### 19.11.6.2 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; Composites; Ceramics; Electron Microscopy; Automotive and Aerospace Materials; Biomaterials; Nanomaterials; Nanoelectronic Materials; Multiscale Modelling of Materials; and 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).

#### section 19.11.6.5: 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 19.11.6.6: 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. 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 19.11.6.7: 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 19.11.6.8: 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 19.11.6.9: Doctor of Philosophy (Ph.D.); Mining and Materials Engineering

Please consult the Department for more information about the Ph.D.

section 19.11.6.10: Graduate Diploma in Mining Engineering (30 credits)

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.

19.11.6.3 Mining and Materials Engineering Admission Requirements and Application Procedures

19.11.6.3.1 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) 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. Industrial experience is favourably viewed for entrance into the program, but is not considered a necessity.

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. 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) program (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.

19.11.6.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

19.11.6.3.3 Application Deadlines

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.
### Mining and Materials Engineering Faculty

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<th><strong>Department Chair</strong></th>
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<tr>
<td>Stephen Yue</td>
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<th><strong>Graduate Program Director</strong></th>
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<tr>
<th><strong>Graduate Program Coordinator</strong></th>
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<td>Barbara Hanley</td>
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<th><strong>Emeritus Professors</strong></th>
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<tr>
<td>John E. Gruzleski; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.), Eng., F.C.I.M., F.A.S.M. (<em>Gerald G. Hatch Emeritus Professor</em>)</td>
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<tr>
<td>George P. Demopoulos; Dipl.Eng.(NTU Athens), M.Sc., Ph.D.(McG.), Eng., F.C.I.M. (<em>Gerald Hatch Faculty Fellow</em>)</td>
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<tr>
<td>Roussos Dimitrakopoulos; B.Sc.(Thessaloniki), M.Sc.(Alta.), Ph.D.(École Poly., Montr.) (<em>Canada Research Chair I</em>)</td>
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<tr>
<td>Raynald Gauvin; B.Eng., Ph.D.(Montr.), Eng.</td>
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<tr>
<td>Faramarz (Ferri) P. Hassani; B.Sc., Ph.D.(Nott.), C.Eng.(U.K. Reg.) (<em>George Boyd Webster Professor</em>)</td>
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<tr>
<td>Hani S. Mitri; B.Sc.(Cairo), M.Eng., Ph.D.(McM.), Eng.</td>
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<tr>
<td>Stephen Yue; B.Sc., Ph.D.(Leeds) (<em>James McGill Professor</em>) (<em>Lorne Trottier Chair in Aerospace Engineering</em>)</td>
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<th><strong>Associate Professors</strong></th>
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<tr>
<td>Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.) (<em>Canada Research Chair II</em>)</td>
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<tr>
<td>Richard Chronik; B.Sc.(Penn. St.), M.Sc., Ph.D.(SUNY/Binghamton)</td>
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<tr>
<td>Mainul Hasan; B.Eng.(Dhaka), M.Eng.(Dhahran), Ph.D.(McG.)</td>
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<tr>
<td>Mustafa Kumral; B.Eng.(Hacettepe), M.Eng.(Cukurova), Ph.D.(Leeds)</td>
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<tr>
<td>Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.) (<em>Gerald Hatch Faculty Fellow</em>)</td>
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<td>Mihriban Pekguleryuz; B.Sc., M.Eng.(Flor.), Ph.D.(McG.)</td>
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<tr>
<td>Kirk Bevan; Ph.D.(Purd.)</td>
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<tr>
<td>Marta Cerruti; B.Sc., Ph.D., Laurea in Chemistry(Torino)</td>
</tr>
<tr>
<td>In-Ho Jung; B.Sc., M.Sc.(POSTECH), Ph.D.(École Poly., Montr.) (<em>Gerald Hatch Faculty Fellow</em>) (<em>William Dawson Scholar</em>)</td>
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<tr>
<td>Nathaniel Quitoriano; B.S.(Calif., Berk.), Ph.D.(MIT)</td>
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<tr>
<td>Jun Song; M.Sc., Ph.D.(Princ.)</td>
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<tr>
<td>Kristian Waters; M.Eng., M.Sc.(UMIST), Ph.D.(Birm.)</td>
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<th><strong>Post-Retirement Professor</strong></th>
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<tr>
<td>Michel L. Bilodeau; B.A.Sc.(Montr.), M.Sc.(A.), Ph.D.(McG.), Eng.</td>
</tr>
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</table>
Adjunct Professors
Mostafa Benzaazoua, Marc Betournay, Martin Bureau, Robin A.L. Drew, Daryoush Emadi, Elhachmi Essadiqi, Carlton Fuerst, Mory Ghomshei, Bryn Harris, Ahmad Hemami, Wynand Kleingeld, Eric Lifshin, Arun Mujumdar, Jan Nesset, Jacques Ouellet, Joe Stachulak, Michel Trudeau, Karim Zaghib

Lecturer
Florence Paray; B.Eng.(CSP), M.Eng., Ph.D.(McG.)

19.11.6.5 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)

One of the following courses:

Note: MIME 672D1 and MIME 672D2 should be taken concurrently

MIME 670   (6)   Research Seminar 1
MIME 670D1 (3)   Rock Mechanics Seminar
MIME 672D2 (3)   Rock Mechanics Seminar
MIME 673   (6)   Mining Engineering Seminar

Required Courses (12 credits)

Four 3-credit courses or the equivalent.

19.11.6.6 Master of Science (M.Sc.); 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)

One of the following:

Note: MIME 672D1 and MIME 672D2 should be taken concurrently.

MIME 670   (6)   Research Seminar 1
MIME 672D1 (3)   Rock Mechanics Seminar
MIME 672D2 (3)   Rock Mechanics Seminar
MIME 673   (6)   Mining Engineering Seminar
Required Courses (12 credits)
Four 3-credit courses at the graduate level or the equivalent.

19.11.6.7 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
(6-15 credits)
MIME 628 (6) Mineral Engineering Project 1
MIME 629 (6) Mineral Engineering Project 2
MIME 634 (3) Mineral Engineering Project 3

Required Courses (6 credits)
One of the following courses:
MIME 670 (6) Research Seminar 1
MIME 673 (6) Mining Engineering Seminar

Complementary Courses
(24-33 credits)
12 credits of 500-, 600-, or 700-level MIME courses.
12 to 21 credits of 500-, 600-, or 700-level courses from within or, subject to Departmental approval, outside the Department.

19.11.6.8 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)
MIME 628 (6) Mineral Engineering Project 1

Required Courses (6 credits)
CHEE 591 (3) Environmental Bioremediation
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)**
(minimum 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

**19.11.6.9 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 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.

19.11.6.10 Graduate Diploma in Mining Engineering (30 credits)

**Required Course (6 credits)**

MIME 673 (6) Mining Engineering Seminar

**Complementary Courses (24 credits)**

24 credits selected in consultation with the Program Adviser.

19.11.7 Urban Planning

19.11.7.1 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

19.11.7.2 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, 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. This happens in large part through project-based learning. The program also puts great emphasis on students doing policy-relevant research.

The School prepares doctoral students for high-level research and teaching positions. The doctoral program is an Ad hoc program—in which students are subject to the University’s regulations in terms of supervision and progress—that welcomes a small number of students, both local and international, who hold a master’s degree and apply on the basis of their own research interests. Prospective applicants should consult www.mcgill.ca/urbanplanning.

The School’s teaching and research activities, for both master’s and Ph.D. students, 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. Similar requirements must be met for admission to the American Institute of Certified Planners (AICP) and other such organizations.
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. A formal specialization is available in Transportation Planning. M.U.P. students in the core program may also participate in the Barbados Field Study Semester, which focuses on global environmental issues. Details concerning these concentrations are available at www.mcgill.ca/urbanplanning/programs and www.mcgill.ca/bfss respectively. Students wishing to specialize in urban 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.

Ph.D. (Ad Hoc)

The School of Urban Planning also offers the possibility of enrolling in a Ph.D. program managed under university regulations. Students can be admitted directly into the program if they hold a master’s degree. Exceptional students from the M.U.P. program can be admitted into the program as well. The Ph.D. program requires the equivalent of a year of course work and a year of preparation for examinations on the student’s field(s) of specialization and dissertation proposal. Work on the dissertation, which may be a monograph or a series of articles, takes two or more additional years.

section 19.11.7.5: 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.

section 19.11.7.6: Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Transportation Planning (66 credits)

Note: The Transportation Planning option is not being offered in 2014-2015. Students will be able to take some courses in this area and devote their Internship and Supervised Research Project to transportation-related topic, but a formal concentration will not be available.

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.

section 19.11.7.7: Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Urban Design (66 credits)

Note: The Urban Design option is being suspended. Students interested in Urban Design are able to specialize in this field of practice as part of the core M.U.P. program.

The Urban Design option allows students to specialize in this field as part of their course of study for the M.U.P. degree. Studio courses, an internship, and a final project involve real-life work that prepares students for the professional practice of Urban Design.

19.11.7.3 Urban Planning Admission Requirements and Application Procedures

19.11.7.3.1 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 backgrounds are considered for admission on an individual basis.

19.11.7.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

19.11.7.3.2.1 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 submitted 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 test is as follows: PBT – 600, iBT – 100, with each component score not less than 23. The minimum score for the IELTS test is 7.0

Awards and Financial Assistance
The School offers several fellowships and supports student applications to external grants from provincial and federal agencies. For information regarding awards and financial assistance, please refer to the Graduate and Postdoctoral Studies website at www.mcgill.ca/gps/funding.

### 19.11.7.3 Application Deadlines

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 19.11.7.4 Urban Planning Faculty

**Director**  
Raphaël Fischler

**Emeritus Professors**  
David Farley; B.Arch.(McG.), M.Arch., M.C.P.(Harv.)  
Jane Matthews-Glenn; B.A., LL.B.(Qu.), D. en droit(Stras.)

**Professor**  
Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.)

**Associate Professors**  
Madhav G. Badami; B.Tech., M.S.(IIT, 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.)  
Ahmed Elgeneidy; B.A.A., M.Arch.(Alexandria), Ph.D.(Port. St.)  
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)*

**Adjunct Professors**  
Cameron Charlebois; B.Sc.(Arch.), B.Arch., M.B.A.(McG.)  
Murtaza Haider; B.Sc.(NWFP UET-Pesh.), M.A.Sc., Ph.D.(Tor.)  
Marc-André Lechasseur; LL.B.(Sher.), LL.M.(Montr.)  
Mario Polèse; B.A.(CUNY), M.A., Ph.D.(Penn.)  
Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

**Guest Lecturers**  
Suzanne Doucet, Paul LeCavalier, Denis Lévesque, James McGregor, Pierre Morissette, Larry Sherman, Martin Wexler

### 19.11.7.5 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) (66 credits)

The M.U.P. requires two years of study including a three-month internship with a member of a recognized planning association.

**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 Courses (27 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
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<tbody>
<tr>
<td>URBP 609</td>
<td>3</td>
<td>Planning Graphics</td>
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<tr>
<td>URBP 612</td>
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<td>History and Theory of Planning</td>
</tr>
<tr>
<td>URBP 622</td>
<td>6</td>
<td>Planning Studio 1</td>
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<tr>
<td>URBP 623</td>
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<td>Planning Studio 2</td>
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<tr>
<td>URBP 624</td>
<td>6</td>
<td>Planning Studio 3</td>
</tr>
<tr>
<td>URBP 633</td>
<td>3</td>
<td>Planning Methods</td>
</tr>
<tr>
<td>URBP 635</td>
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</tr>
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</table>

# Required Internship (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>URBP 628</td>
<td>6</td>
<td>Practical Experience</td>
</tr>
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</table>

# Complementary Courses (12-18 credits)

In choosing courses from the following list, students are encouraged to complete at least one course in each of the four areas of design, environment, housing, and transportation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARCH 515</td>
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<td>Sustainable Design</td>
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<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 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>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>URBP 501</td>
<td>2</td>
<td>Principles and Practice 1</td>
</tr>
<tr>
<td>URBP 504</td>
<td>3</td>
<td>Planning for Active Transportation</td>
</tr>
<tr>
<td>URBP 505</td>
<td>3</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>URBP 506</td>
<td>3</td>
<td>Environmental Policy and Planning</td>
</tr>
<tr>
<td>URBP 507*</td>
<td>3</td>
<td>Planning and Infrastructure</td>
</tr>
<tr>
<td>URBP 519*</td>
<td>6</td>
<td>Sustainable Development Plans</td>
</tr>
<tr>
<td>URBP 520*</td>
<td>3</td>
<td>Globalization: Planning and Change</td>
</tr>
<tr>
<td>URBP 530</td>
<td>3</td>
<td>Urban Environmental Planning</td>
</tr>
<tr>
<td>URBP 536</td>
<td>2</td>
<td>Current Issues in Transportation 1</td>
</tr>
<tr>
<td>URBP 537</td>
<td>2</td>
<td>Current Issues in Transportation 2</td>
</tr>
<tr>
<td>URBP 602</td>
<td>3</td>
<td>Urban Design Seminar 1: Foundations</td>
</tr>
<tr>
<td>URBP 604</td>
<td>3</td>
<td>Urban Design Seminar 2: Advanced Topics</td>
</tr>
<tr>
<td>URBP 607</td>
<td>3</td>
<td>Reading Course: Urban Planning</td>
</tr>
<tr>
<td>URBP 608</td>
<td>3</td>
<td>Advanced GIS Applications</td>
</tr>
<tr>
<td>URBP 616</td>
<td>3</td>
<td>Selected Topics 1</td>
</tr>
<tr>
<td>URBP 617</td>
<td>3</td>
<td>Selected Topics 2</td>
</tr>
<tr>
<td>URBP 618</td>
<td>3</td>
<td>Selected Topics 3</td>
</tr>
</tbody>
</table>
### Elective Courses

0-6 credits

Students may take courses at the 500 or 600 levels offered by any academic unit at McGill or at another Montreal university if they help students develop an in-depth knowledge of one or more subject areas in the field of planning, with the approval of the School. Frequent choices include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the elective course(s) will be counted toward the M.U.P. degree.

#### 19.11.7.6 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Transportation Planning (66 credits)

**This program is currently not offered.**

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.

**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>
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<tr>
<td>URB 631</td>
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</tr>
<tr>
<td>URB 632</td>
<td>6</td>
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</tr>
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</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>

**Required Courses (33 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>URB 505</td>
<td>3</td>
<td>Geographic Information Systems</td>
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<tr>
<td>URB 609</td>
<td>3</td>
<td>Planning Graphics</td>
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<tr>
<td>URB 612</td>
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<tr>
<td>URB 619</td>
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<td>URB 623</td>
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<td>URB 624</td>
<td>6</td>
<td>Planning Studio 3</td>
</tr>
<tr>
<td>URB 633</td>
<td>3</td>
<td>Planning Methods</td>
</tr>
<tr>
<td>URB 635</td>
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<td>Planning Law</td>
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**Complementary Courses**
6-12 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CIVE 540</td>
<td>3</td>
<td>Urban Transportation Planning</td>
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<tr>
<td>CIVE 561</td>
<td>3</td>
<td>Urban Activity, Air Pollution, and Health</td>
</tr>
<tr>
<td>CIVE 637</td>
<td>4</td>
<td>Discrete Choice Modeling in Transportation</td>
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<tr>
<td>CIVE 661</td>
<td>4</td>
<td>Modelling of Transportation Emissions</td>
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<tr>
<td>URBP 504</td>
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<td>Planning for Active Transportation</td>
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<td>URBP 506</td>
<td>3</td>
<td>Environmental Policy and Planning</td>
</tr>
<tr>
<td>URBP 536</td>
<td>2</td>
<td>Current Issues in Transportation 1</td>
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<tr>
<td>URBP 537</td>
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<td>Current Issues in Transportation 2</td>
</tr>
<tr>
<td>URBP 608</td>
<td>3</td>
<td>Advanced GIS Applications</td>
</tr>
<tr>
<td>URBP 620</td>
<td>3</td>
<td>Transportation Economics</td>
</tr>
</tbody>
</table>

**Elective Courses**

0-6 credits

Students may take courses at the 500 or 600 level offered by any academic unit at McGill or another Montreal university if they help students develop an in-depth knowledge of one or more subject areas in the field of planning, with the approval of the School. Frequent choices include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the elective course(s) will be counted toward the M.U.P. degree.

**19.11.7.7 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Urban Design (66 credits)**

**This program is currently not offered.**

The Urban Design concentration in the professionally-accredited M.U.P. degree enables students to specialize in this area of scholarship and professional practice in their second year of studies. Three studio courses, an internship, two intensive seminar courses, and a final Supervised Research Project in Urban Design enable students to prepare for professional practice as urban design specialists skilled in analysis and design development for existing (sub)urban landscapes and newly urbanizing contexts. This option is open to students with a professional and/or undergraduate degree in Architecture, Landscape Architecture, Environmental Design, Urban Planning, or related fields. Qualified applicants are admitted to the core M.U.P. program and then apply to be placed in the concentration at the end of their first year of study. Successful applicants must meet the admission requirements for the core M.U.P. program and also demonstrate visual acuity, spatial literacy, and skills in graphic communication during their first two terms of study.

**Research Project (15 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
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<td>3</td>
<td>Supervised Research Project 1</td>
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<tr>
<td>URBP 631</td>
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<td>Supervised Research Project 2</td>
</tr>
<tr>
<td>URBP 632</td>
<td>6</td>
<td>Supervised Research Project 3</td>
</tr>
</tbody>
</table>

**Required Internship (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBP 628</td>
<td>6</td>
<td>Practical Experience</td>
</tr>
</tbody>
</table>

**Required Courses (33 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBP 602</td>
<td>3</td>
<td>Urban Design Seminar 1: Foundations</td>
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<tr>
<td>URBP 604</td>
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<td>Urban Design Seminar 2: Advanced Topics</td>
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<td>URBP 609</td>
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<tr>
<td>URBP 622</td>
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<td>Planning Studio 1</td>
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<td>URBP 623</td>
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<td>URBP 624</td>
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<td>Planning Studio 3</td>
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<tr>
<td>URBP 633</td>
<td>3</td>
<td>Planning Methods</td>
</tr>
<tr>
<td>URBP 635</td>
<td>3</td>
<td>Planning Law</td>
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</table>
Complementary Courses

9-12 credits from the following including at least one ARCH course and one URBP course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 515</td>
<td>Sustainable Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 520</td>
<td>Montreal: Urban Morphology</td>
<td>3</td>
</tr>
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<td>ARCH 521</td>
<td>Structure of Cities</td>
<td>3</td>
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<tr>
<td>ARCH 527</td>
<td>Civic Design</td>
<td>3</td>
</tr>
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<td>ARCH 561</td>
<td>Affordable Housing Seminar 1</td>
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</tr>
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<td>ARCH 562</td>
<td>Innovative Homes and Communities</td>
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</tr>
<tr>
<td>ARCH 566</td>
<td>Cultural Landscapes Seminar</td>
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<td>URBP 504</td>
<td>Planning for Active Transportation</td>
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</tr>
<tr>
<td>URBP 506</td>
<td>Environmental Policy and Planning</td>
<td>3</td>
</tr>
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<td>URBP 530</td>
<td>Urban Environmental Planning</td>
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<td>URBP 616</td>
<td>Selected Topics 1</td>
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<tr>
<td>URBP 619</td>
<td>Land Use and Transportation Planning</td>
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</tr>
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</table>

0-3 credits can be selected from other courses at the 500 or 600 levels in any academic unit at McGill or at another university, subject to the approval of the School.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 515</td>
<td>Sustainable Design</td>
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<td>History of Housing</td>
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<td>Housing Theory</td>
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<td>ARCH 550</td>
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<td>Geographic Information Systems</td>
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</tr>
<tr>
<td>URBP 629</td>
<td>Cities in a Globalizing World</td>
<td>3</td>
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</table>

20 Faculty of Law

20.1 Dean’s Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates
graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

20.2 Graduate and Postdoctoral Studies

20.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkonen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>

20.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca gps

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

20.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

20.3 Important Dates 2014–2015

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

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

Program Requirements

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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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. 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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited with courses from another university.

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 form, 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/gps/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.
20.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.
20.5.3  **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.

20.5.4  **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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

20.6  **Graduate Admissions and Application Procedures**

Please refer to the eCalendar's *University Regulations and Resources > Graduate* > *section 5: 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.

20.7  **Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's *University Regulations and Resources > Graduate* > *section 6: Fellowships, Awards, and Assistantships* for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

20.8  **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.

20.8.1  **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.).

20.8.2  **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 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

20.8.3 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

20.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."
20.8.5 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.

20.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

20.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
20.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

20.11.1 Law

20.11.1.1 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) – Angela Campbell

20.11.1.2 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 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, and Doctor of Civil Law (D.C.L.), as well as graduate certificates.

Students may choose to pursue either the LL.M. or the D.C.L. in the Faculty of Law, the Institute of Air and Space Law (IASL), or the Institute of Comparative Law (ICL). Graduate certificates may only be completed within either the IASL or the ICL.

The Faculty of Law promotes study and research in private, commercial, international, and public law, as well as legal theory, from the perspectives of diverse legal traditions. In collaboration with the McGill School of Environment, the Faculty offers an LL.M. Thesis or Non-Thesis option in Environment. The Faculty also offers two other options within the LL.M. degree, a cross-disciplinary European Studies Option (ESO; availability of this program is subject to relevant courses being offered in given year) in collaboration with the Faculty of Arts, and a specialization in Bioethics. The D.C.L. degree always involves a substantial thesis.

The Institute of Air and Space Law operates within the Faculty of Law. The Institute offers a curriculum exploring legal issues that arise from international civil aviation and new technologies in space. It provides students with a comprehensive understanding of the legal processes regulating worldwide aerospace activities. The Institute offers the degrees of Master of Laws (LL.M.) with thesis and non-thesis options, and Doctor of Civil Law (D.C.L.), and a Graduate Certificate in Air and Space Law.
The Institute of Comparative Law operates within the Faculty of Law as a centre of comparative legal studies. It accommodates national, international, and transnational studies and encourages openness to diverse legal cultures in teaching and research. The Institute offers the degrees of Master of Laws (LL.M.) with thesis and non-thesis options, and Doctor of Civil Law (D.C.L.), and a Graduate Certificate in Comparative Law.

Master of Laws (LL.M.) Degrees

**section 20.11.1.5: 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 20.11.1.6: 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 apply through either the Faculty of Law, Medicine, Religious Studies, or the Department of Philosophy. Students entering pursuing an LL.M., Bioethics, are bound by the requirements of the Faculty of Law’s LL.M. program. This program is offered in the thesis option only.

**section 20.11.1.7: 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 School of the 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.

**section 20.11.1.8: Master of Laws (LL.M.); Law (Thesis); European Studies (46 credits)**

The European Studies Option (ESO) is a cross-disciplinary program offered as an option within the existing LL.M. Thesis program. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood.

*Note:* Availability of this program is subject to relevant courses being offered in given year.

**section 20.11.1.9: 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 20.11.1.10: 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 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.

Institute of Air and Space Law

**section 20.11.1.11: Master of Laws (LL.M.); Law (Thesis); Air and Space Law (45 credits)**

The LL.M. Thesis program in the Institute of Air and Space Law is available to qualifying applicants holding a bachelor’s law degree who wish to focus on original scholarly research and writing under the supervision of a law professor. This program involves 20 credits in coursework and 25 research credits (a thesis of 100–150 pages). 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 20.11.1.12: Master of Laws (LL.M.); Law (Non-Thesis); Air and Space Law (45 credits)**

The LL.M. Non-Thesis program in the Institute of Air and Space Law is available to qualifying applicants holding a bachelor’s law degree who wish to gain a wide exposure to a range of taught courses within, and related to, the domain of Air and Space Law. The Non-Thesis option requires a substantial Supervised Research Project (18 credits), with the remaining 27 credits earned in courses.

Institute of Comparative Law

**section 20.11.1.13: Master of Laws (LL.M.); Law (Thesis); Comparative Law (45 credits)**

The Institute of Comparative Law (ICL) welcomes master’s students studying within the McGill Faculty of Law. ICL students are encouraged to think about the nature and value of comparative scholarship both through the courses that they take (particularly the Legal Traditions course, which is required for all ICL students) and through their master’s thesis. Study within the ICL is ideally suited to students who have a background in or a desire to pursue research in the field of comparative law, broadly defined. As such, ICL student members 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.

**section 20.11.1.14: Master of Laws (LL.M.); Law (Non-Thesis); Comparative Law (45 credits)**

The Institute of Comparative Law (ICL) welcomes master’s students studying within the McGill Faculty of Law. ICL students are encouraged to think about the nature and value of comparative scholarship both through the courses that they take (particularly the Legal Traditions course, which is required for all ICL students) and through their individual master’s supervised research project (for LL.M. Master’s Non-Thesis students). Study within the ICL is
ideally suited to students who have a background in or a desire to pursue research in the field of comparative law, broadly defined. As such, ICL student members 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.

**Doctor of Civil Law (D.C.L.) Degrees**

**section 20.11.1.15: Doctor of Civil Law (D.C.L.)**

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 20.11.1.16: Doctor of Civil Law (D.C.L.); Air and Space Law**

The Doctor of Civil Law in the Institute of 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. Students must successfully complete a comprehensive examination to be done at the end of the first year, or during the second year of the D.C.L. program. The principal basis for evaluation is a doctoral thesis of up to 400 pages. It must constitute significant contribution to legal knowledge, evidenced in concept and execution the original work of the candidate.

**section 20.11.1.17: Doctor of Civil Law (D.C.L.); Comparative Law**

The Institute of Comparative Law (ICL) welcomes doctoral students studying within the McGill Faculty of Law. ICL students are encouraged to think about the nature and value of comparative scholarship both through the courses that they take (particularly the Legal Traditions course, which is required for all ICL students) and through their doctoral thesis. Study within the ICL is ideally suited to students who have a background or a desire to pursue research in the field of comparative law, broadly defined. As such, ICL student members 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.

**Graduate Certificates in Law**

**section 20.11.1.18: Graduate Certificate in Air and Space Law (15 credits)**

The Graduate Certificate in Air and Space Law is a coursework program with a limited research and writing requirement. It is particularly appropriate for students with a strong professional orientation who do not wish to write a thesis. 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 20.11.1.19: Graduate Certificate in Comparative Law (15 credits)**

The Graduate Certificate in Comparative Law provides advanced training in subjects within the scope of the Institute of Comparative Law (ICL) 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.

**20.11.1.3 Law Admission Requirements and Application Procedures**

**20.11.3.1 Admission Requirements**

The Graduate Admissions Committee of the Faculty of Law reviews applications and makes recommendations regarding admission. Final admission decisions are determined by admissions policies set by Graduate and Postdoctoral Studies.

For information and application forms, please visit the Faculty website [www.mcgill.ca/law-admissions/graduates/admissions](http://www.mcgill.ca/law-admissions/graduates/admissions) or contact the Graduate Programs Office in Law, McGill University, at the Departmental address, or via email at grad.law@mcgill.ca or telephone at 514-398-6635.

Note that applicants must submit their application through uApply. Any questions regarding the status of an application must be sent via the uApply communication tool.

**20.11.3.1.1 Language Requirement**

Graduate-level courses are generally offered in English, and English-language abilities must be demonstrated for admission. In order to understand all course material, 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.

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 or American (English or French) institution, must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL, IELTS, MELAB, Cambridge English Language Assessment, or EDEXCEL offices. An institutional version of the TOEFL is not acceptable. For an application to be considered, a TOEFL, IELTS, MELAB, Cambridge English Language Assessment, or EDEXCEL test result, McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication must be submitted.

One of the following language requirements must be met: 100 on the TOEFL (iBT) with each component score no less than 25, 600 on the TOEFL (PBT), a band score of 7.0 or greater on the IELTS, a grade of 85 or higher on the MELAB, a grade of “A” (Excellent) on the Cambridge English Language Assessment, or an institutional version of the TOEFL.
Assessment (CAE), a grade of "B" (Good) or higher on the Cambridge English Language Assessment (CPE), an overall grade of at least "Distinction" on the EDEXCEL (Level 4) or an overall grade of at least "Merit" on the EDEXCEL (Level 5).

For information about the TOEFL, including the registration process, visit www.ets.org/toefl. For information about the IELTS, visit www.ielts.org. There may be a lengthy delay for registration, and it takes approximately 40 days to communicate the results. For both tests, the official results should be sent directly from the testing institutions to McGill University. McGill’s institutional code is 0935; this code must be provided to the testing agencies when requesting a test report form. For further information on English proficiency tests, visit www.mcgill.ca/law-admissions/graduates/admissions/requirements.

D.C.L. Degree

Applicants demonstrating outstanding academic ability will be considered for admission to the doctoral program. Admission to the D.C.L. program occurs only when all four of the following conditions are met:

a. The candidate holds a bachelor's degree (or equivalent) in Law (such as LL.B. or J.D.).

b. The candidate holds a master's degree (or equivalent) in Law with thesis from McGill University or another university. (Review of the master’s thesis is normally part of the admission decision-making process. In exceptional cases, a candidate with a non-thesis master's degree with an outstanding academic record may be admitted to the D.C.L. program.)

c. The candidate maintained, for each of the above degrees, a cumulative grade point average (CGPA) of 3.0 out of 4.0 (or equivalent) or higher. (Note that 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.)

d. The Graduate Admissions Committee is satisfied that the quality of the candidate's previous research is sufficient to justify admission to a D.C.L. program.

Admission to the doctoral program is always dependent on the availability of a suitable supervisor.

LL.M. Degrees

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). Note that 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.

LL.M. Interdisciplinary Options

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 this eCalendar under McGill School of Environment > Graduate > Academic Programs > section 21.11.1: Environment or visit www.mcgill.ca/mse/programs/envroption.

2. European Studies Option: This option is available to students who apply for admission to the LL.M. Thesis program at the Faculty of Law. Note the availability of this option is subject to relevant courses offered in a given year.

LL.M. Specialization in Bioethics

Requirements for admission to the master's program in Bioethics from the base discipline Law are the same as for admission to the LL.M.

For further information, see this eCalendar under Faculty of Medicine > Graduate > Academic Programs > section 22.11.3: Bioethics or visit www.mcgill.ca/biomedicalethicsunit/masters.

Graduate Certificate Programs

The requirements for admission to the graduate certificate programs are essentially the same as for the master's programs, except that greater weight may be placed on professional experience. For further information, visit www.mcgill.ca/law-admissions/graduates/admissions/requirements. Graduate certificate programs are available in the following two fields:

1. Graduate Certificate in Air and Space Law

2. Graduate Certificate in Comparative Law

Note: ALL international students must obtain permission to study from the governments of Quebec and Canada. Immigration Quebec issues the Certificate of Acceptance of Quebec (CAQ) and Citizenship and Immigration Canada issues federal Study Permits. You may also wish to contact International Student Services at www.mcgill.ca/internationalstudents for assistance.

Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Additional Requirements

The items and clarifications below are additional requirements set by the Faculty of Law:

- Personal Statement (graduate certificate applicants only). For more information, visit www.mcgill.ca/law-admissions/graduates/admissions/requirements.
- Two Reference Letters from academic referees.
- Curriculum Vitae
- Recent photograph
- Master's thesis (D.C.L. applicants only)
20.11.1.3 Application Deadlines

The application deadlines listed here 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>
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<th>Canadian</th>
<th>International</th>
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<td>Summer: N/A</td>
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The application deadline to all graduate law programs (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 remains non-refundable.

20.11.1.4 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 four inter-related concentrations.

20.11.1.4.1 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)
- Canon Law (CMPL 502)
- Civil Law Perspectives (CMPL 601)
- Common Law Perspectives (CMPL 602)
- Comparative Modern Legal History (CMPL 519)
- Feminist Legal Theory (CMPL 504)
- Human Rights and Cultural Diversity (CMPL 603)
- Interdisciplinary Seminar in European Studies (CMPL 659)
- 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)
20.11.1.4.2 International Business Law
The ICL pioneered the first graduate concentration in international business law in Canada. 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 Community Law 1 (CMPL 536)
European Community Law 2 (CMPL 537)
Government Control of Business (CMPL 574)
Government Regulation of Space Activities (ASPL 639)
Intellectual and 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 Securities Markets (CMPL 545)
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)

20.11.1.4.3 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 456)
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)
Courses offered within this concentration may include:

Law & Psychiatry (PUB2 500)
Social Diversity and Law (CMPL 511)

20.11.1.44 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 and Industrial Property (BUS2 502)
International Environmental Law (CMPL 546)
Land Use Planning (PRV4 145)
Law and Healthcare (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)

20.11.1.5 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).

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<tr>
<td>CMPL 617</td>
<td>3</td>
<td>Master's Thesis 6</td>
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</table>

Required Courses (8 credits)
Complementary Courses (7 credits)
The remaining 7 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:

- CMPL 618 (2) Master's Thesis 7
- CMPL 619 (1) Master's Thesis 8

20.11.1.6 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).

- BIOE 690 (3) M.Sc. Thesis Literature Survey
- BIOE 691 (3) M.Sc. Thesis Research Proposal
- BIOE 693 (12) M.Sc. Thesis

Required Courses (10 credits)

- BIOE 680 (3) Bioethical Theory
- BIOE 681 (3) Bioethics Practicum
- CMPL 641 (4) Theoretical Approaches to Law

Complementary Courses (11 credits)
One of the following:

- BIOE 682 (3) Medical Basis of Bioethics
- CMPL 642 (3) Law and Health Care
- PHIL 643 (3) Seminar: Medical Ethics
- RELG 571 (3) Ethics, Medicine and Religion

8-9 credits at the 500 level or above of Faculty of Law courses or Bioethics courses.
20.11.1.7 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 (29 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).

Master's Thesis 1 (3) CMPL 612
Master's Thesis 2 (3) CMPL 613
Master's Thesis 3 (3) CMPL 614
Master's Thesis 4 (6) CMPL 615
Master's Thesis 5 (12) CMPL 616
Master's Thesis 7 (2) CMPL 618

Required Courses (10 credits)

Legal Research Methodology (4) CMPL 610
Foundations of Environmental Policy (3) ENVR 610
Environmental Seminar 1 (1) ENVR 650
Environmental Seminar 2 (1) ENVR 651
Environmental Seminar 3 (1) ENVR 652

Complementary Courses (6 credits)

3-6 credits chosen from:
International Environmental Law and Politics (3) CMPL 546
Environment and the Law (3) CMPL 580

0-3 credits chosen from:
Global Environmental Politics (3) ENVR 519
Environmental Measurement and Modelling (3) ENVR 544
Environment and Health of Species (3) ENVR 620
Sustainable Landscapes (3) ENVR 622
Civilization and Environment (3) ENVR 630
Topics in Environment 4 (3) ENVR 680

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

20.11.1.8 Master of Laws (LL.M.); Law (Thesis); European Studies (46 credits)

Availability of this program is subject to relevant courses being offered in a given year.

The 46-credit LL.M. program, thesis option, in European Studies 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.

This option is a cross-disciplinary program open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students will take an interdisciplinary seminar and three courses on European themes and issues as part of their LL.M. thesis program. The thesis must be on a topic relating to European Studies, approved by the European Studies Option Coordinating Committee. Knowledge of French, while not a strict prerequisite, is an important asset for admission and will be encouraged as part of the program, as well as knowledge of a third European language. 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)**
The Master's Thesis programs consist of a coursework component and a thesis of approximately 100 pages. 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).

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<td>CMPL 617</td>
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**Required Courses (7 credits)**

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<tr>
<td>LAWG 659</td>
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<td>Interdisciplinary Seminar in European Studies</td>
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**Complementary Courses (9 credits)**

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<td>European Union Law 1</td>
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<td>CMPL 537</td>
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<td>European Union Law 2</td>
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One or both of these courses may be replaced with another course at the 500 level or above on European Studies offered by the Faculty of Law or the Faculty of Arts with the approval of the Associate Dean (Graduate Studies).

One of:

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<tr>
<td>CMPL 600</td>
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<td>Legal Traditions</td>
</tr>
<tr>
<td>CMPL 641</td>
<td>4</td>
<td>Theoretical Approaches to Law</td>
</tr>
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</table>

**20.11.1.9 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.

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### Required Courses (8 credits)

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<td>CMPL 641</td>
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</table>

### Complementary Courses (22 credits)

The remaining 22 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:

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### 20.11.1.10 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 (17 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.

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### Required Courses (10 credits)

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### Complementary Courses (18 credits)

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<td>CMPL 546</td>
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<td>CMPL 580</td>
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and/or other Faculty of Law offerings.

3 credits chosen from:

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<tr>
<td>ENVR 544</td>
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</table>
20.11.11 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 (25 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>ASPL 690</td>
<td>4</td>
<td>Master’s Thesis 1</td>
</tr>
<tr>
<td>ASPL 691</td>
<td>3</td>
<td>Master’s Thesis 2</td>
</tr>
<tr>
<td>ASPL 692</td>
<td>6</td>
<td>Master’s Thesis 3</td>
</tr>
<tr>
<td>ASPL 693</td>
<td>12</td>
<td>Master’s Thesis 4</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>ASPL 633</td>
<td>3</td>
<td>Public International Air Law</td>
</tr>
<tr>
<td>ASPL 636</td>
<td>3</td>
<td>Private International Air Law</td>
</tr>
<tr>
<td>ASPL 637</td>
<td>3</td>
<td>Space Law: General Principles</td>
</tr>
</tbody>
</table>

Complementary Courses (11 credits)
4 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 610D1</td>
<td>2</td>
<td>Legal Research Methodology</td>
</tr>
<tr>
<td>CMPL 610D2</td>
<td>2</td>
<td>Legal Research Methodology</td>
</tr>
<tr>
<td>CMPL 641</td>
<td>4</td>
<td>Theoretical Approaches to Law</td>
</tr>
</tbody>
</table>

7 credits at the 500 level or higher, chosen from among Faculty offerings (including ASPL offerings).

20.11.12 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 (18 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPL 655</td>
<td>15</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>ASPL 656</td>
<td>2</td>
<td>Research Project 2</td>
</tr>
</tbody>
</table>
ASPL 657 (1) Research Project 3

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 (18 credits)
4 credits from the following:
CMPL 610D1 (2) Legal Research Methodology
CMPL 610D2 (2) Legal Research Methodology
CMPL 641 (4) Theoretical Approaches to Law

14 credits at the 500 level or higher chosen from among Faculty offerings (including ASPL offerings).

20.11.1.13 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 (4) Legal Traditions
CMPL 610 (4) Legal Research Methodology
CMPL 641 (4) Theoretical Approaches to Law

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 618</td>
<td>(2)</td>
<td>Master's Thesis 7</td>
</tr>
<tr>
<td>CMPL 619</td>
<td>(1)</td>
<td>Master's Thesis 8</td>
</tr>
</tbody>
</table>

### 20.11.14 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 655</td>
<td>(15)</td>
<td>Research Project 1</td>
</tr>
</tbody>
</table>

#### Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 600</td>
<td>(4)</td>
<td>Legal Traditions</td>
</tr>
<tr>
<td>CMPL 610</td>
<td>(4)</td>
<td>Legal Research Methodology</td>
</tr>
<tr>
<td>CMPL 641</td>
<td>(4)</td>
<td>Theoretical Approaches to Law</td>
</tr>
</tbody>
</table>

#### 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 656</td>
<td>(2)</td>
<td>Research Project 2</td>
</tr>
<tr>
<td>CMPL 657</td>
<td>(1)</td>
<td>Research Project 3</td>
</tr>
</tbody>
</table>

### 20.11.15 Doctor of Civil Law (D.C.L.)

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 Code</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 (4 Credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPL 641</td>
<td>(4)</td>
<td>Theoretical Approaches to Law</td>
</tr>
<tr>
<td>LAWG 702</td>
<td>(0)</td>
<td>DCL Seminar</td>
</tr>
</tbody>
</table>
Complementary Course (0-4 Credits)
Some students are encouraged to take the following:

CMPL 610    (4)    Legal Research Methodology

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.

ASPL 701    (0)    Comprehensive - Air/Space Law

Required Courses (4 Credits)

CMPL 641    (4)    Theoretical Approaches to Law
LAWG 702    (0)    DCL Seminar

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 (4 Credits)

CMPL 641    (4)    Theoretical Approaches to Law
LAWG 702    (0)    DCL Seminar

Complementary Course (0-4 Credits)
Some students are encouraged to take the following:

CMPL 610    (4)    Legal Research Methodology
20.11.1.18 Graduate Certificate in 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPL 633</td>
<td>3</td>
<td>Public International Air Law</td>
</tr>
<tr>
<td>ASPL 636</td>
<td>3</td>
<td>Private International Air Law</td>
</tr>
<tr>
<td>ASPL 637</td>
<td>3</td>
<td>Space Law: General Principles</td>
</tr>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 additional credits of 500-level or higher law courses.

20.11.1.19 Graduate Certificate in 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.

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21   McGill School of Environment

21.1   Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

*Martin Kreiswirth, Ph.D.*

*Associate Provost (Graduate Education)*

*Dean, Graduate and Postdoctoral Studies*
21.2 Graduate and Postdoctoral Studies

21.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A. (Hamilton), M.A. (Chic.), Ph.D. (Tor.)</td>
<td></td>
</tr>
<tr>
<td>Heather Goad; B.A. (Br. Col.), Ph.D. (USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc. (France), M.Sc. (Rennes), Ph.D. (Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A. (Colgate), Ph.D. (Yale)</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>

21.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

21.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

21.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

21.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

21.5 Program Requirements

21.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow. 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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

21.5.2 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 14.8.3: 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.

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 a 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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

21.5.3 **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 and contact the relevant department.

21.5.4 **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#coarserg.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

Courses taken at other institutions to be part of the requirements of a program of study must be approved by GPS before registration. Double counting is not permitted.
21.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

21.7 Fellowships, Awards, and Assistantships

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

21.8 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.

21.8.1 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.).

21.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

21.8.3 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

21.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

21.8.5 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.

21.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

21.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

21.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.
21.11.1 Environment

21.11.1.1 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
Fax: 514-398-7846

*Coordinator – C. Zhu*
Telephone: 514-398-2827
Fax: 514-398-1643
Email: grad.mse@mcgill.ca
Website: www.mcgill.ca/mse
Website: www.mcgill.ca/mse/programs/envroption

21.11.1.2 About Environment

Resolving environmental issues requires a dialogue between pure and applied sciences, the social sciences, and 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:

**Anthropology**

M.A. – see the eCalendar under Faculty of Arts > Graduate > Academic Programs > Anthropology > section 15.11.1.7: Master of Arts (M.A.); Anthropology (Thesis) — Environment (48 credits)

**Atmospheric and Oceanic Sciences**

M.Sc. – see the eCalendar under Faculty of Science > Graduate > Academic Programs > Atmospheric and Oceanic Sciences > section 27.11.1.6: Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)
### Biology
M.Sc. – see the [eCalendar](#) under Faculty of Science > Graduate > Academic Programs > Biology > section 27.11.2.6: Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Science > Graduate > Academic Programs > Biology > section 27.11.2.10: Doctor of Philosophy (Ph.D.); Biology — Environment

### Bioresource Engineering
M.Sc. – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 14.11.3.6: Master of Science (M.Sc.); Bioresource Engineering (Thesis) — Environment (46 credits)

M.Sc. (Applied) – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 14.11.3.11: Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) — Environmental Engineering (45 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 14.11.3.15: Doctor of Philosophy (Ph.D.); Bioresource Engineering — Environment

### Earth and Planetary Sciences
M.Sc. – see the [eCalendar](#) under Faculty of Science > Graduate > Academic Programs > Earth and Planetary Sciences > section 27.11.5.6: Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) — Environment (48 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Science > Graduate > Academic Programs > Earth and Planetary Sciences > section 27.11.5.8: Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment

### Entomology
M.Sc. – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 14.11.7.7: Master of Science (M.Sc.); Entomology (Thesis) — Environment (46 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 14.11.7.16: Doctor of Philosophy (Ph.D.); Entomology — Environment

### Epidemiology
M.Sc. – see the [eCalendar](#) under Faculty of Medicine > Graduate > Academic Programs > Epidemiology and Biostatics > section 22.11.6.4.4: Master of Science (M.Sc.); Public Health (Non-Thesis) — Environment (60 credits)

### Geography
M.A. – see the [eCalendar](#) under Faculty of Arts > Graduate > Academic Programs > Geography > section 15.11.9.7: Master of Arts (M.A.); Geography (Thesis) — Environment (45 credits)

M.Sc. – see the [eCalendar](#) under Faculty of Science > Graduate > Academic Programs > Geography > section 27.11.6.6: Master of Science (M.Sc.); Geography (Thesis) — Environment (45 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Arts > Graduate > Academic Programs > Geography > section 27.11.6.9: Doctor of Philosophy (Ph.D.); Geography — Environment

### Law
LL.M. – see the [eCalendar](#) under Faculty of Law > Graduate > Academic Programs > Law > section 20.11.1.7: Master of Laws (LL.M.); Law (Thesis); Environment (45 credits)

LL.M. (Non-Thesis) – see the [eCalendar](#) under Faculty of Law > Graduate > Academic Programs > Law > section 20.11.1.10: Master of Laws (LL.M.); Law (Non-Thesis); Environment (45 credits)

### Management
Ph.D. – see the [eCalendar](#) under Desautels Faculty of Management > Graduate > section 17.14.5: Doctor of Philosophy (Ph.D.); Management — Environment

### Medicine, Experimental
M.Sc. – see the [eCalendar](#) under Faculty of Medicine > Graduate > Academic Programs > Medicine, Experimental > section 22.11.11.7: Master of Science (M.Sc.); Experimental Medicine (Thesis) — Environment (45 credits)

Ph.D. – see the [eCalendar](#) under Faculty of Medicine > Graduate > Academic Programs > Medicine, Experimental > section 22.11.11.10: Doctor of Philosophy (Ph.D.); Experimental Medicine — Environment

### Microbiology
M.Sc. – see the [eCalendar](#) under Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 14.11.7.10: Master of Science (M.Sc.); Microbiology (Thesis) — Environment (46 credits)
21.11.1.3 Environment Admission Requirements and Application Procedures

21.11.1.3.1 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/programs/envroption.

21.11.1.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

21.11.1.3.2.1 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/programs/envroption#FACULTY).

21.11.1.3.3 Application 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.

21.11.1.4 Environment Faculty

Director

S. De Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.) (Interim)

Professors

P.G. Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (joint appt. with Geography and Natural Resource Sciences)

C. Chapman; B.Sc., M.A., Ph.D.(Alta.) (joint appt. with Anthropology)

M. Scott; B.Sc.(New Br.), Ph.D.(McG.) (joint appt. with Institute of Parasitology)
### Associate Professors

M. Badami; B.Tech., M.S.(IIT), M.E.Des.(Calg.), Ph.D.(Br. Col.) (joint appt. with School of Urban Planning)  
E. Bennett; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.) (joint appt. with Natural Resource Sciences)  
J. Cardille; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), Ph.D.(Wisc.) (joint appt. with Natural Resource Sciences)  
J. Ellis; B.A.(Calg.), LL.B., B.C.L.(McG.), LL.M.(Br. Col.) (joint appt. with Law)  
F. Fabry; B.Sc., M.Sc., Ph.D.(McG.) (joint appt. with Atmospheric and Oceanic Sciences)  
I. Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (joint appt. with Philosophy)  
B. Leung; B.Sc.(Br. Col.), Ph.D.(Car.) (joint appt. with Biology)  
G. Mikkelsen; B.A.(Trinity), M.S., Ph.D.(Chic.) (joint appt. with Philosophy)  
A. Ricciardi; B.Sc.(Agri.), M.Sc., Ph.D.(McG.) (joint appt. with Redpath Museum)  
R. Sengupta; B.Sc.(Born.), M.Sc.(IIT), Ph.D.(S. Illinoi) (joint appt. with Geography)  
I. Vaccaro; B.A.(Barcelona), D.E.A.(Paris), M.A., Ph.D.(Wash.) (joint appt. with Anthropology)

### Assistant Professors

C. Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.) (joint appt. with Institute for Health and Social Policy)  
N. Kosoy; B.Sc.(Univ. Simon Bolivar), M.Sc.(Kent), M.Sc., Ph.D.(Univ. Autonoma de Barcelona) (joint appt. with Natural Resource Sciences)  
K. Manaugh; B.A.(Naropa), M.U.P., Ph.D.(McG.) (joint appt. with Geography)  
J. Rhemtulla; B.Sc.(McG.), M.Sc.(Alta.), Ph.D.(Wisc.-Madison) (joint appt. with Geography)

### Faculty Lecturers

J. Freeman; B.A.(S. Fraser), M.A.(McG.), Ph.D.(Br. Col.)  
G. McCourt; B.Sc., M.Sc.(Alta.), M.Sc.(McG.)  
K. Roulet; B.Sc.(Trent), M.Sc.(Guelph)

### Associate Members

**Anthropology**: A. Costopoulos, J. Galaty  
**Architecture, School of**: N. Luka  
**Atmospheric and Oceanic Sciences**: P. Ariya  
**Biology**: L. Chapman, A. Gonzalez, I. Gregory-Eaves, M. Lechowicz, C. Potvin  
**Bioresource Engineering**: J. Adamowski, G. Clark, M. Lefsrud, C. Madramootoo  
**Chemical Engineering**: N. Tufenkji, V. Yargeau  
**Chemistry**: C. Barrett  
**Civil Engineering and Applied Mechanics**: S. Gaskin, M. Hatzopoulos, V.T.V. Nguyen, J. Nicell  
**Earth and Planetary Sciences**: J. Paquette  
**Economics**: R. Cairns, C. Green, T. Naylor  
**Electrical and Computer Engineering**: G. Joos  
**Epidemiology**: M. Goldberg  
**Geography**: G. Chmura, O. Coomes, T. Meredith, T. Moore, W. Pollard, N. Ramankutty, N. Roulet  
**History**: D. Studnicki-Gizbert  
**Institute for Health and Social Policy**: J. Baumgartner  
**Languages, Literatures, and Cultures**: S. Posthumus  
**Law, Faculty of**: A. de Mestral, J. Glenn, R. Gold, R. Janda, H. Kong  
**Management, Faculty of**: D. Etzion, S. Maguire, V. Verter  
Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

Administrative Officers

Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)
Elisa Pylkkanen; B.A., M.A.(McG.)

Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)

Associate Dean (Graduate and Postdoctoral Studies)

Associate Dean (Graduate and Postdoctoral Studies)

Director (Graduate and Postdoctoral Studies)

Location

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Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

22.2.3 General Statement Concerning Higher Degrees
Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

22.3 Important Dates 2014–2015
For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

22.4 Graduate Studies at a Glance
Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

22.5 Program Requirements

22.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.
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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

22.5.2 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 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

**22.5.3 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 and contact the relevant department.

**22.5.4 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.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

**22.6 Graduate Admissions and Application Procedures**

Please refer to the eCalendar’s University Regulations and Resources > Graduate > section 5: 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.

**22.7 Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.
22.8 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.

22.8.1 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.).

22.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

   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.

tax. 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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.
GRADUATE AND POSTDOCTORAL STUDIES

Approved by Senate, April 2000; revised May 2014

22.8.3 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

22.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

22.8.5 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.
22.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

22.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

22.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

22.11.1 Anatomy and Cell Biology

22.11.1.1 Location

Department of Anatomy and Cell Biology
Strathcona Anatomy and Dentistry Building
3640 University Street, Room 1/59
Montreal QC H3A 0C7
Canada

Telephone: 514-398-6357
Fax: 514-398-5047
Website: www.mcgill.ca/anatomy

22.11.1.2 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; and 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 at www.mcgill.ca/gps/funding/students-postdocs.

Departmental Seminars

Nationally and internationally recognized scientists present their research findings to the Department at a regular seminar series throughout the academic year (see www.mcgill.ca/anatomy/seminar-series). 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.

The Human Systems Biology Stream is offered as a complementary stream to the existing M.Sc. program entailing a multidisciplinary approach to achieving an M.Sc. in Cell Biology and Anatomy. The primary objective of this stream is to offer graduate students academic training in Human Systems Biology. This is an exciting and new multidisciplinary field that aims to understand molecular human diseases at the systems level.

section 22.11.1.5: 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 22.11.1.6: 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.

22.11.1.3 Anatomy and Cell Biology Admission Requirements and Application Procedures

22.11.1.3.1 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 at McGill

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 at McGill

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 567, or 86 on an Internet-based test with each component score of not less than 20.

or

IELTS: Minimum overall band score of 6.5.
22.11.1.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

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 at: www.mcgill.ca/anatomy/deparmental-directory.

Program guidelines are detailed at www.mcgill.ca/anatomy/graduate-studies/graduate-programs.

22.11.1.3.2.1 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

22.11.1.3.3 Application Deadlines

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

22.11.1.4 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.)
James R. Brawer; B.Sc.(Tufts), Ph.D.(Harv.)
Yves Clermont; B.Sc.(Montr.), Ph.D.(McG.), F.R.C.S.
Dennis G. Osmond; C.M., B.Sc., M.B., Ch.B., D.Sc.(Brist.), M.R.C.S., L.R.C.P., F.R.S.C.
Hershey Warshawsky; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Professors
Chantal Autexier; B.Sc.(C'dia), Ph.D.(McG.)
Philip Barker; B.Sc.(S. Fraser), Ph.D.(Alta.) (joint appt. with Neurology and Neurosurgery)
Samuel David; Ph.D.(Manit.) (joint appt. with Neurology and Neurosurgery)
Louis Hermo; B.A.(Loyola), M.Sc., Ph.D.(McG.)
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)
Sandra C. Miller; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)
Carlos R. Morales; D.V.M.(U.N., Argentina), Ph.D.(McG.)
Barry I. Posner; M.D.(Manit.), F.R.C.P.(C) (joint appt. with Medicine)
Dieter Reinhardt; M.S.(Kaiserslautern), Ph.D.(Munich) (joint appt. with Dentistry)
Alfredo Ribeiro-da-Silva; M.D., Ph.D.(Oporto) (joint appt. with Pharmacology and Therapeutics)
Charles E. Smith; D.D.S., Ph.D.(McG.)
### Professors

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*

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.)

John F. Presley; B.A., Ph.D.(Texas)

Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich)  
*joint appt. with Earth and Planetary Sciences*

### Assistant Professors

Justin Kollman; Ph.D.(Calif.)

Isabelle Rouiller; Ph.D.(Hertfordshire)

### Associate Members

John J.M. Bergeron; B.Sc.(McG.), D.Phil.(Oxf.)

Albert Berghuis (*Biochemistry*)

Daniel Bernard (*Pharmacology and Therapeutics*)

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*)

Svetlana Komarova (*Dentistry*)

Stephane Laporte (*Medicine*)

Andréa Leblanc (*Neurology and Neurosurgery*)

Loydie A. Jerome-Majewska (*Pediatrics and Human Genetics*)

Peter Metrakos (*Surgery*)

Tommy Nilsson (*Medicine*)

Christian Rocheleau (*Medicine*)

Edward S. Ruthazer (*Neurology and Neurosurgery*)

Peter Siegel (*Medicine and Biochemistry*)

Thomas Stroh (*Neurology and Neurosurgery*)

Jacalyn Vogel (*Biology*)

### Adjunct Professors

Christopher Brett; Ph.D.(Johns Hop.)

Michel Cayouette; Ph.D.(Laval)

Frédéric Charron; B.Sc.(Montr.), Ph.D.(McG.)
Adjunct Professors
Jean-François Côté; Ph.D. (McG.)
Miroslaw Cygler; M.Sc., Ph.D. (Lodz, Poland)
Daniel Cyr; B.Sc., M.Sc. (C’dia), Ph.D. (Manit.)
Jacques Drouin; B.Sc., D.Sc. (Laval)
Jennifer Estall; Ph.D. (Tor.)
David Hipfner; B.Sc., Ph.D. (Qu.)
Artur Kania; Ph.D. (Baylor)
Stephane Lefrancois; B.Sc., Ph.D. (McG.)
André Nantel; B.Sc., M.Sc. (Laval), Ph.D. (Chapel Hill)
Alexei Pshezhetsky; Ph.D. (Moscow St.)
Joseph Schrag; M.Sc., Ph.D. (Ill.)

Faculty Lecturer
Ayman Behiery; M.B., Ch.B. (Cairo)

22.11.1.5 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 (4.5) Histology
ANAT 690D1 (3) Cell and Developmental Biology
ANAT 690D2 (3) Cell and Developmental Biology

Human Systems Biology Stream
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
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.

### 22.11.1.6 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

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### 22.11.2 Biochemistry

#### 22.11.2.1 Location

Department of Biochemistry  
McIntyre Medical Sciences Building  
3655 Promenade Sir-William-Osler  
Montreal QC H3G 1Y6  
Canada

Christine Laberge: Student Affairs Administrator  
Telephone: 514-398-2423  
Fax: 514-398-7384  
Email: admissions.biochemistry@mcgill.ca  
Website: [www.mcgill.ca/biochemistry](http://www.mcgill.ca/biochemistry)  
Website: [www.mcgill.ca/biochemistry/graduate-studies-2/chemicalbiology](http://www.mcgill.ca/biochemistry/graduate-studies-2/chemicalbiology)  
Website: [www.mcgill.ca/biochemistry/graduate-studies-2/bioinformatics](http://www.mcgill.ca/biochemistry/graduate-studies-2/bioinformatics)

#### 22.11.2.2 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, signal transduction, protein structure and function, membrane biology, cell death and differentiation, embryonic development, neurobiology, bioinformatics, and many aspects of cancer. Specialized graduate training programs in Chemical Biology, Human Systems Biology (Bioinformatics), Cancer Research/Oncology ([http://cancercentre.mcgill.ca/research](http://cancercentre.mcgill.ca/research)), and Structural Biology ([http://grasp.mcgill.ca](http://grasp.mcgill.ca)) 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, www.mcgill.ca/gps/funding/students-postdocs.

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 22.11.2.5: 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 22.11.2.6: 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.

Financial support for students in the program is available from a variety of sources, including competitively awarded CIHR-funded Chemical Biology Scholarship awards.

section 22.11.2.7: 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 22.11.2.8: 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 22.11.2.9: 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 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...
section 22.11.2.9: Doctor of Philosophy (Ph.D.); Biochemistry — Chemical Biology

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.

section 22.11.2.10: 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.

22.11.2.3 Biochemistry Admission Requirements and Application Procedures

22.11.2.3.1 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: Minimum score of 600, or 86 on an Internet-based test with each component score of not less than 20.

or

IELTS: Minimum overall band score of 6.5.

International students who have received their degree outside North America should submit the following:

GRE: Subject Test in Biochemistry, Cell and Molecular Biology with a minimum score of 550. (Not required, but strongly recommended.)

Admission Requirements – Chemical Biology Option

As for the regular graduate programs of the Biochemistry Department, acceptance into the 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 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 Chemical Biology Program Committee.

22.11.2.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.
See section 5.3: Application Procedures for detailed 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 and www.mcgill.ca/biochemistry/about-us/department/faculty-members.

### 22.11.2.3 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 Chemical Biology research director (for Chemical Biology option only)

### 22.11.2.3.3 Application Deadlines

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 22.11.2.4 Biochemistry Faculty

#### Chair

Albert Berghuis (Interim)

#### Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

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.)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

Theodore L. Sourkes; M.Sc.(McG.), Ph.D.(Cornell), F.R.S.C.

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)

#### Professors

Nicole Beauchemin; B.Sc., M.Sc., Ph.D.(Montr.) (joint appt. with Oncology and Medicine)

Albert Berghuis; B.Sc., M.Sc.(Rijks Univ. Groningen, The Netherlands), Ph.D.(Br. Col.) (Canada Research Chair in Structural Biology)

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (Gilman Cheney Professor of Biochemistry)

Imed Gallouzi; Maitrise, D.E.A., Ph.D.(Montpellier, France) (Canada Research Chair in Cellular Information Systems)

Kalle Gehring; B.A.(Brown), M.Sc.(Mich.), Ph.D.(Calif., Berk.) (Chercheur National du FRSQ)

Vincent Giguère; B.Sc., Ph.D.(Laval) (joint appt. with Oncology and Medicine)

Philippe Gros; B.Sc., M.Sc.(Montr.), Ph.D.(McG.), F.R.S.C. (James McGill Professor)

Roderick 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)
Professors
Jerry Pelletier; B.Sc., Ph.D.(McG.) (*James McGill Professor*)
Gordon C. Shore; B.Sc.(Guelph), Ph.D.(McG.)
Joseph Shuster; B.Sc.(McG.), Ph.D.(Calif.), M.D.( Alta.)
John R. Silvius; B.Sc., Ph.D.(Alta.)
Nahum Sonenberg; M.Sc., Ph.D.(Weizmann Inst.), F.R.S.C., F.R.S. (*James McGill Professor*)
David Y. Thomas; B.Sc.(Brist.), M.Sc., Ph.D.(Univ. 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
Maxime Bouchard; B.Sc., Ph.D.(Laval) (*Canada Research Chair in Developmental Genetics*)
Josée Dostie; B.Sc.(Sher.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheure-boursière du FRSQ*)
Thomas Duchaine; B.Sc., Ph.D.(Montr.) (*Chercheur-boursier du FRSQ*)
Bhushan Nagar; B.Sc., Ph.D.(Tor.) (*Canada Research Chair in the Structural Biology of Signal Transduction*)
Arnim Pause; B.Sc., M.Sc.(U. Konstanz, Germ.), Ph.D.(McG.) (*Canada Research Chair in Molecular Oncology*)
Jose G. Teodoro; B.Sc.(W. Ont.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur-boursier du FRSQ*)
Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.) (*Canada Research Chair in Molecular Chaperones*)

Assistant Professors
Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)
Sidong Huang; B.A.(Boston), Ph.D.(Calif.)
Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale)
Julie St-Pierre; B.Sc., M.Sc.(Laval), Ph.D.(Camb.)

Associate Members
Edward A. Fon (*Neurology and Neurosurgery*)
Jacques Genest (*Dept. of Medicine*)
Matthias Götte (*Microbiology and Immunology*)
Michael Hallett (*McGill Centre for Bioinformatics*)
Robert S. Kiss (*Dept. of Medicine*)
Justin Kollman (*Anatomy and Cell Biology*)
Gergely Lukacs (*Physiology*)
Vassilios Papadopoulos (*Dept. of Medicine*)
Janusz Rak (*Montreal Children’s Hospital*)
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 (*Oncology, Lady Davis Inst.*)
Youla S. Tsantrizos (*Dept. of Chemistry*)
Bernard Turcotte (*Dept. of Medicine, Goodman Cancer Ctr.*)
Josie Ursini-Siegel (*Oncology, Lady Davis Inst.*)
Simon Wing (*Dept. of Medicine*)
Xiang-Jiao Yang (*Goodman Cancer Ctr., Dept. of Medicine*)
### Adjunct Professors

Philip Awadalla (*Montr.*)  
Mirek Cygler (*Sask.*)  
Jacques Drouin (*Clin. Res. Inst.*)  
Anny Fortin (*Dafra Pharma Res. and Deve. Bvba*)  
Enrico Purisima (*NRC/BRI*)  
René Roy (*PharmaQAM*)

### 22.11.2.5 Master of Science (M.Sc.); Biochemistry (Thesis) (45 credits)

#### Thesis Courses (36 credits)

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<td>Thesis Research 2</td>
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<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 Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 696</td>
<td>3</td>
<td>Seminars in Biochemistry</td>
</tr>
</tbody>
</table>

#### Complementary Courses* (6 credits)

At least 3 credits must be chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 570</td>
<td>3</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<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>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 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.

### 22.11.2.6 Master of Science (M.Sc.); Biochemistry (Thesis) — Chemical Biology (47 credits)

#### Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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)
**Complementary Courses** (11 credits)

Two of the following courses:

- **BIOC 610** (1) Seminars in Chemical Biology 1
- **BIOC 611** (1) Seminars in Chemical Biology 3
- **BIOC 689** (1) Seminars in Chemical Biology 2
- **BIOC 690** (1) Seminars in Chemical Biology 4

At least 3 credits from the following:

- **CHEM 502** (3) Advanced Bio-Organic Chemistry
- **CHEM 503** (3) Drug Design and Development 1
- **PHAR 503** (3) Drug Discovery and Development 1

and at least 3 credits from the following:

- **BIOC 570** (3) Biochemistry of Lipoproteins
- **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
- **EXMD 615** (3) Essentials of Glycobiology
- **EXMD 635D1** (3) Experimental/clinical Oncology
- **EXMD 635D2** (3) Experimental/clinical Oncology

Plus additional credits, to a total of at least 11 complementary course credits from the following list:

- **CHEM 504** (3) Drug Design and Development 2
- **CHEM 522** (3) Stereochemistry
- **CHEM 582** (3) Supramolecular Chemistry
- **CHEM 591** (3) Bioinorganic Chemistry
- **CHEM 621** (5) Reaction Mechanisms in Organic Chemistry
- **CHEM 629** (5) Organic Synthesis
- **CHEM 655** (4) Advanced NMR Spectroscopy
- **EXMD 510** (3) Bioanalytical Separation Methods
- **EXMD 602** (3) Techniques in Molecular Genetics
- **PHAR 504** (3) Drug Discovery and Development 2
- **PHAR 562** (3) General Pharmacology 1
- **PHAR 563** (3) General Pharmacology 2
- **PHAR 707** (3) Topics in Pharmacology 6

* 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.

22.11.2.7 Master of Science (M.Sc.); Biochemistry (Thesis) — Bioinformatics (45 credits)

**Thesis Courses (30 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOC 694</td>
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<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 Courses (6 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>
</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* (9 credits)**

3 credits to be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 570</td>
<td>(3)</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<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>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 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>

* 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.

22.11.2.8 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)**
**Complementary Courses*** (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 570</td>
<td>(3)</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<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>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 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.

### 22.11.2.9 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>Course Title</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</th>
<th>Credits</th>
<th>Title</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 Design and Development 1</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</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 570</td>
<td>(3)</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<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>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</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 504</td>
<td>(3)</td>
<td>Drug Design and Development 2</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>
<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>
<tr>
<td>EXMD 602</td>
<td>(3)</td>
<td>Techniques in Molecular Genetics</td>
</tr>
<tr>
<td>PHAR 504</td>
<td>(3)</td>
<td>Drug Discovery and Development 2</td>
</tr>
<tr>
<td>PHAR 562</td>
<td>(3)</td>
<td>General Pharmacology 1</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>(3)</td>
<td>General Pharmacology 2</td>
</tr>
<tr>
<td>PHAR 707</td>
<td>(3)</td>
<td>Topics in Pharmacology 6</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.
22.11.2.10 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 Title</th>
</tr>
</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 Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 570</td>
<td>3</td>
<td>Biochemistry of Lipoproteins</td>
</tr>
<tr>
<td>BIOC 600</td>
<td>3</td>
<td>Advanced Strategies in Genetics and Genomics</td>
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<tr>
<td>BIOC 603</td>
<td>3</td>
<td>Genomics and Gene Expression</td>
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<td>BIOC 604</td>
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<td>3</td>
<td>Protein Biology and Proteomics</td>
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<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 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>

*** 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.
22.11.3 Bioethics

22.11.3.1 Location
Biomedical Ethics Unit
3647 Peel Street
Montreal QC H3A 1X1
Canada

Telephone: 514-398-6980
Fax: 514-398-8349
Website: www.mcgill.ca/biomedicalethicsunit/masters

For information, contact Jennifer Fishman, Graduate Program Director, at jennifer.fishman@mcgill.ca.

22.11.3.2 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 anthropology, history, law, medicine, molecular genetics, philosophy, and sociology. We offer a master’s degree specialization in biomedical ethics for selected master’s students in the Division of Experimental Medicine, Human Genetics Department, Philosophy Department, Faculty 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;
- Faculty of Law;
- Faculty of Religious Studies; and
- Faculty of Arts, Department of Philosophy.

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.

22.11.3.3 Bioethics Admission Requirements and Application Procedures

22.11.3.3.1 Admission Requirements
M.D., bachelor’s-level professional training in a health science, or bachelor’s degree in law, philosophy, or religious studies. Other students may be considered on an individual basis.

Enrolment is limited to 12 students.

22.11.3.3.2 Application Procedures
McGill's online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply.

See section 5.3: 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), Religious Studies, and the Department of Philosophy.

Applications 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/masters/apply).

Applications must be accepted by the appropriate Faculty, the Bioethics Graduate Studies Advisory Committee, and Graduate and Postdoctoral Studies.

22.11.3.3.3 Application 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.

Note: Applications for Winter or Summer term admission will not be considered.
22.11.4 Biomedical Engineering

22.11.4.1 Location

Department of Biomedical Engineering
Duff Medical Building
3775 University Street, Room 316
Montreal QC H3A 2B4
Canada

Telephone: 514-398-6736
Fax: 514-398-7461
Website: www.mcgill.ca/bme

22.11.4.2 About Biomedical Engineering

The Department offers graduate training programs leading to master's (M.Eng.) and Ph.D. degrees in Biomedical Engineering.

We provide instruction and opportunities for interdisciplinary research in the application of engineering, mathematics, and the physical sciences to problems in medicine and the life sciences. Courses are offered for graduate students in the life sciences, engineering, and the physical sciences.

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 nanotechnology, and 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. A new option in bioinformatics is offered jointly with other University departments.

Graduate students may also be registered through the departments of Medicine, Science, and Engineering, and must then fulfill the requirements for advanced degrees imposed by their respective departments.

In addition, all students are required, through coursework and independent study, to achieve a degree of interdisciplinary competence appropriate to their area of specialization.

M.Eng. Meetings: 1) Initial; 2) Progress; and Fast-Track transfer to the Ph.D. program. Details of each meeting can be found at: www.mcgill.ca/bme/students/policies-forms.

Ph.D. Meetings: 1) Preliminary; 2) Comprehensive Exam Preparation; 3) Thesis Proposal and Comprehensive Exam; 4) Thesis Progress; and 5) Thesis Pre-submission. Details of each meeting can be found at: www.mcgill.ca/bme/students/policies-forms.

22.11.4.5: Master of Engineering (M.Eng.); Biomedical Engineering (Thesis) (45 credits)

As the first Biomedical Engineering (BME) department in Canada, BME's internationally renowned staff provide frequent and stimulating interactions with physicians, scientists in many fields, and with the biomedical industry. McGill BME provides opportunities to receive training in a unique multidisciplinary environment, taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering. BME offers only thesis-based graduate degrees (M.Eng.) spanning broad themes in 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 neuroactive compounds, medical imaging, microfluidics, nanomedicine and nanotechnology, and bioinformatics in genomics and proteomics. For details, please refer to the BME website: www.mcgill.ca/bme. The best preparation is with a bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic physiology, or cell biology. Our BME graduates have secured positions in academia, biomedical and other industries, and government or regulatory sectors, either before or within a few months of graduation.
section 22.11.4.6: Master of Engineering (M.Eng.); Biomedical Engineering (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 M.Eng. 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 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 22.11.4.7: Doctor of Philosophy (Ph.D.); Biomedical Engineering

As the first Biomedical Engineering (BME) department in Canada, BME internationally renowned staff provide frequent and stimulating interactions with physicians, scientists in many fields and with the biomedical industry. McGill BME provides opportunities to receive training in a unique multidisciplinary environment, taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering. BME offers only thesis-based graduate degrees (Ph.D.) spanning broad themes in 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 neuropeptides, medical imaging, microfluidics, nanomedicine and nanotechnology, and bioinformatics in genomics and proteomics. For details, please refer to the BME website: www.mcgill.ca/bme. The best preparation is with a bachelor's degree in engineering, science, or medicine and a master's degree in biomedical engineering, bioengineering, biotechnology, electrical engineering, physiology, chemical engineering, biomaterial, system engineering, imaging, or other related areas. Our BME graduates have secured positions in academia, biomedical and other industries, and government or regulatory sectors, either before or within a few months of graduation.

section 22.11.4.8: Doctor of Philosophy (Ph.D.); Biomedical Engineering — 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 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 the concepts, language, approaches, and limitations of the field, and will be capable 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.

22.11.4.3 Biomedical Engineering Admission Requirements and Application Procedures

22.11.4.3.1 Admission Requirements

See section 5.2: Admission Requirements (Minimum Requirements to be Considered for Admission). In addition, please see the Department website: www.mcgill.ca/bme.

22.11.4.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures. Please address enquiries directly to the Department.

22.11.4.3.3 Application Deadlines

The application deadlines listed here are set by 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></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>April 15</td>
<td>Fall: March 15</td>
<td>Fall: Same as Canadian/International</td>
</tr>
<tr>
<td>Winter</td>
<td>Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer</td>
<td>N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

22.11.4.4 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)
A.C. Evans; B.Sc.(Liv.), M.Sc.(Sur.), Ph.D.(Leeds) (joint appt. with Neurology and Neurosurgery)
H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)
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 Professors
W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.) (joint appt. with Otolaryngology)
D. Juncker; Dipl., Ph.D.(Neuch-Switzerland)
J.L. Nadeau; B.A., Ph.D.(Minn.)

Associate Members
S. Baillet (Neurology and Neurosurgery)
C. Baker (Ophthalmology)
F. Barthelat (Mechanical Engineering)
K. Cullen (Physiology)
A. Ehrlicher (Bioengineering)
I. El Naqa (Oncology)
J. Gotman (Neurology and Neurosurgery)
D. Guitton (Neurology and Neurosurgery)
A. Hendricks (Bioengineering)
A. Kamen (Bioengineering)
A. Katsarkas (Otolaryngology)
J. Kinsella (Bioengineering)
A.M. Lauzon (Medicine)
R. Leask (Chemical Engineering)
T. Milner (Kinesiology and Physical Education)
G. Mitsis (Bioengineering)
L. Mongeau (Mechanical Engineering)
R. Mongrain (Mechanical Engineering)
J. Near (Psychiatry)
D. Nicolau (Bioengineering)
D. Pasini (Mechanical Engineering)
A. Reader (Neurology and Neurosurgery)
A. Shmuel (Neurology and Neurosurgery)
Y.B. Xia (Bioengineering)

Adjunct Professors
P.G. Charette (Sher.)
C. Grova (C'dia)
Adjunct Professors

E. Jones (KU Leuven)
J.-M. Lina (ETS)
G.B. Pike (Calg.)
T. Veres (NRC)

22.11.4.5 Master of Engineering (M.Eng.); Biomedical Engineering (Thesis) (45 credits)

Thesis Courses (24 credits)

BMDE 695 (12) Thesis Submission

12 credits selected from the following courses:

- BMDE 691 (3) Thesis Research 2
- BMDE 692 (3) Thesis Research 3
- BMDE 693 (6) Thesis Research 4
- BMDE 694 (6) Thesis Research 5

Complementary Courses (21 credits)

12 credits of courses which have both biomedical content and content from the physical sciences, engineering, or computer science selected from the following:

- BIOT 505 (3) Selected Topics in Biotechnology
- BMDE 501 (3) Selected Topics in Biomedical Engineering
- BMDE 502 (3) Biomedical Modelling and Identification
- BMDE 503 (3) Biomedical Instrumentation
- BMDE 504 (3) Biomaterials and Bioperformance
- BMDE 505 (3) Cell and Tissue Engineering
- BMDE 506 (3) Molecular Biology Techniques
- BMDE 508 (3) Introduction to Micro and Nano-Bioengineering
- BMDE 519 (3) Biomedical Signals and Systems
- BMDE 600D1 (1.5) Seminars in Biomedical Engineering
- BMDE 600D2 (1.5) Seminars in Biomedical Engineering
- BMDE 650 (3) Advanced Medical Imaging
- BMDE 651 (3) Orthopaedic Engineering
- BMDE 652 (3) Bioinformatics: Proteomics
- COMP 526 (3) Probabilistic Reasoning and AI
- COMP 546 (4) Computational Perception
- COMP 558 (3) Fundamentals of Computer Vision
- COMP 761 (4) Advanced Topics Theory 2
- ECSE 523 (3) Speech Communications
- ECSE 526 (3) Artificial Intelligence
- ECSE 529 (3) Computer and Biological Vision
- ECSE 626 (4) Statistical Computer Vision
- ECSE 681 (4) Colloquium in Electrical Engineering
GRADUATE AND POSTDOCTORAL STUDIES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXMD 610</td>
<td>3</td>
<td>Molecular Methods in Medical Research</td>
</tr>
<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Introduction to Medical Imaging</td>
</tr>
<tr>
<td>MDPH 611</td>
<td>2</td>
<td>Medical Electronics</td>
</tr>
<tr>
<td>MDPH 612</td>
<td>2</td>
<td>Computers in Medical Imaging</td>
</tr>
<tr>
<td>MECH 500</td>
<td>3</td>
<td>Selected Topics in Mechanical Engineering</td>
</tr>
<tr>
<td>MECH 561</td>
<td>3</td>
<td>Biomechanics of Musculoskeletal Systems</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>
</tbody>
</table>

or, with the approval of the student's Graduate Advisory Committee and the Graduate Program Chair, other graduate-level courses with content of interest to biomedical engineering students.

9 credits selected from the courses listed above, or with approval of the Graduate Chair and Supervisor.

22.11.46 Master of Engineering (M.Eng.); Biomedical Engineering (Thesis) — Bioinformatics (45 credits)

### Thesis Courses (24 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 693</td>
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<td>Thesis Research 4</td>
</tr>
<tr>
<td>BMDE 694</td>
<td>6</td>
<td>Thesis Research 5</td>
</tr>
<tr>
<td>BMDE 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>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 (18 credits)

12 credits of courses which have both biomedical content and content from the physical sciences, engineering, or computer science selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOT 505</td>
<td>3</td>
<td>Selected Topics in Biotechnology</td>
</tr>
<tr>
<td>BMDE 501</td>
<td>3</td>
<td>Selected Topics in Biomedical 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>
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<td>BMDE 504</td>
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<td>Cell and Tissue Engineering</td>
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<td>BMDE 506</td>
<td>3</td>
<td>Molecular Biology Techniques</td>
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<td>3</td>
<td>Introduction to Micro and Nano-Bioengineering</td>
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<tr>
<td>BMDE 519</td>
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<td>Biomedical Signals and Systems</td>
</tr>
<tr>
<td>BMDE 600D1</td>
<td>1.5</td>
<td>Seminars in Biomedical Engineering</td>
</tr>
<tr>
<td>BMDE 600D2</td>
<td>1.5</td>
<td>Seminars in Biomedical Engineering</td>
</tr>
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<td>BMDE 650</td>
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<td>Advanced Medical Imaging</td>
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</tr>
<tr>
<td>COMP 546</td>
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</tr>
<tr>
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<td>3</td>
<td>Fundamentals of Computer Vision</td>
</tr>
<tr>
<td>COMP 761</td>
<td>4</td>
<td>Advanced Topics Theory 2</td>
</tr>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
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<td>----------------------------------</td>
</tr>
<tr>
<td>ECSE 523</td>
<td>3</td>
<td>Speech Communications</td>
</tr>
<tr>
<td>ECSE 526</td>
<td>3</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>ECSE 529</td>
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<td>Computer and Biological Vision</td>
</tr>
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<td>4</td>
<td>Statistical Computer Vision</td>
</tr>
<tr>
<td>ECSE 681</td>
<td>4</td>
<td>Colloquium in Electrical Engineering</td>
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<td>EXMD 610</td>
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<td>Artificial Internal Organs</td>
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<tr>
<td>PHGY 518</td>
<td>3</td>
<td>Artificial Cells</td>
</tr>
</tbody>
</table>

6 credits selected from the following courses:

<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>
<tr>
<td>PHGY 603</td>
<td>3</td>
<td>Systems Biology and Biophysics</td>
</tr>
</tbody>
</table>

In addition, students are required to present their work as a conference paper or departmental seminar before being granted the M.Eng. (Bioinformatics Option) degree.

**22.11.4.7 Doctor of Philosophy (Ph.D.); Biomedical 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 Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 700</td>
<td>0</td>
<td>Ph.D. Comprehensive</td>
</tr>
</tbody>
</table>

Students must be registered in the course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

**22.11.4.8 Doctor of Philosophy (Ph.D.); Biomedical Engineering — 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>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMDE 700</td>
<td>0</td>
<td>Ph.D. Comprehensive</td>
</tr>
<tr>
<td>COMP 616D1</td>
<td>1.5</td>
<td>Bioinformatics Seminar</td>
</tr>
</tbody>
</table>
Any additional coursework required will be determined on an individual basis by the student's adviser and the Graduate Program Director.

**Complementary Courses (6 credits)**

6 credits 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>
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<tr>
<td>BMDE 652</td>
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<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>

---

**22.11.5 Communication Sciences and Disorders**

**22.11.5.1 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

**22.11.5.2 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) as well as other Montreal universities, and they 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 and 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  
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 the Language Requirements for Professions in the General University Information and Regulations section of the Health Sciences Calendar, available at http://coursecalendar.mcgill.ca/hs201415 or through the eCalendar website.

**Funding**
The IODE Provincial Chapter of Quebec funds two $1,000 “Silence to Sound” awards for studies in hearing impairment. These in-course awards are based on academic merit, Canadian citizenship, financial need, and potential for excellence, and are awarded by the School.

**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 22.11.5.6: Master of Science, Applied (M.Sc.A.); Communication Sciences & Disorders (Non-Thesis) — Speech-Language Pathology (81 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 22.11.5.5: 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, or settings that combine clinical and research activities or continuing their research training at the doctoral level.

**section 22.11.5.7: 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) 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) is 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 22.11.5.8: Doctor of Philosophy (Ph.D.): Communication Sciences and Disorders — Language Acquisition**

Information about this option is available from the School and at [www.psych.mcgill.ca/lap.html](http://www.psych.mcgill.ca/lap.html). 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.
22.11.5.3 Communication Sciences and Disorders Admission Requirements and Applications Procedures

22.11.5.3.1 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 587 (paper-based) or 95 on the Internet-based test 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.

22.11.5.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Please see the School of Communication Sciences and Disorders website at www.mcgill.ca/scsd/programs 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.

22.11.5.3.2.1 Additional Requirements

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

M.Sc. (Applied)

• Prerequisite Form
• Curriculum Vitae
• Reference letters – one professional and one academic

M.Sc. (Thesis) and Ph.D.

• Personal Statement
• Curriculum Vitae
• Writing Sample
• Acceptance by a research supervisor

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).

22.11.5.3.3 Application Deadlines

The application deadlines listed here 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 contact the list at www.mcgill.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
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<tr>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

### 22.11.5.4 Communication Sciences and Disorders Faculty

<table>
<thead>
<tr>
<th><strong>Director and Associate Dean</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Shari R. Baum <em>(Acting Director)</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Research Director</strong></th>
<th>Linda Polka</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Emeritus Professor</strong></th>
<th>Donald Doehring; B.A.(Buff.), M.A.(N.M.), Ph.D.(Ind.)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Professors</strong></th>
<th>Shari R. Baum; B.A.(Cornell), M.S.(Vermont), M.A., Ph.D.(Brown)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vincent Gracco; B.A., M.A.(San Diego), Ph.D.(Wis.-Madison)</td>
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<tr>
<td></td>
<td>Athanasios Katsarkas; M.D.(Thess.), M.Sc.(McG.), F.R.C.P(C)</td>
</tr>
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<td></td>
<td>Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Susan Rvachew; B.Sc.(Alta.), M.Sc., Ph.D.(Calg.)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Associate Professors</strong></th>
<th>Laura Gonnerman; B.A.(Boston), M.A.(Middlebury), Ph.D.(USC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aparna Nadig; B.A.(Reed), M.S., Ph.D.(Brown)</td>
</tr>
<tr>
<td></td>
<td>Linda Polka; B.A.(Slippery Rock), M.A.(Minn.), Ph.D.(S. Flor.)</td>
</tr>
<tr>
<td></td>
<td>Karsten Steinhauer; M.Sc., Ph.D.(Dr rer nat)(Free Univ., Berlin)</td>
</tr>
<tr>
<td></td>
<td>Elin Thordardottir; B.A., M.Sc., Ph.D.(Wisc.-Madison)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Assistant Professor</strong></th>
<th>Meghan Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Assistant Professors (Part-Time)</strong></th>
<th>Christina Lattermann; Staatlich anerkannte Logopaedin(Westfaelische Wilhelms-Universitat, Muenster), M.Sc.(McG.), Ph.D.(Kassel)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rosalee Shenker; B.Sc.(Syrac.), M.A.(Calif. St.), Ph.D.(McG.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Faculty Lecturers</strong></th>
<th>M. Kelly Root; B.A.(Ott.), M.Sc.(Dal.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sophie Vaillancourt; B.Sc., MOA(Montr.), M.B.A.(McG.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Faculty Lecturers (Part-Time)</strong></th>
<th>Janet Bang; B.Sc.(Calif.-LA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Catherine Bosse; B.Ed.(Montr.), M.Sc.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Myrto Brandeker; M.Sc.(Karolinska Inst.)</td>
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<tr>
<td></td>
<td>Liliane Brunetti; B.Sc.(C’dia), M.Cl.Sc.(W. Ont.)</td>
</tr>
<tr>
<td></td>
<td>Patricia Coffin; B.A.(PEI), M.Sc.(Dal.)</td>
</tr>
<tr>
<td></td>
<td>Ariana Fraid; B.A., M.Sc.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Ana Maria Gonzalez Barrero; B.Sc.(Rosario, Colombia), M.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Suzanne Lalonde; B.A.(Montr.), M.Sc.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>James Lapointe; B.A., M.Sc.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Zinta Mateus; B.S.(Rutg.), B.Ed., M.Sc.A.(McG.)</td>
</tr>
<tr>
<td></td>
<td>Gina Mills; B.Sc.(Acad.), M.Sc.(Dal.)</td>
</tr>
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</table>

603 McGill University, Graduate and Postdoctoral Studies, 2014-2015 (Published July 31, 2014)
Faculty Lecturers (Part-Time)
Katherin Rees; Staatsexamen (Germany)
Judith Robillard-Shultz; B.A., M.Sc.A. (McG.)
Aruna Sudarshan; B.Sc., M.Sc. (Institute of Speech and Hearing, Bangalore)
Colleen Timm; B.A. (C’dia), M.Sc.A. (McG.)

Associate Members
Eva Kehayia (Physical and Occupational Therapy)
Yuriko Oshima-Takane (Psychology)

Adjunct Members
Howard Chertkow (Jewish Gen.)
David McFarland (Montr.)
Lucie Menard (UQAM)

22.11.5.5 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.

22.11.5.6 Master of Science, Applied (M.Sc.A.); Communication Sciences & Disorders (Non-Thesis) — Speech-Language Pathology (81 credits)
The professional degree program involves two academic years of full-time study and related practical work, followed by a Summer internship.

Required Courses (75 credits)
SCSD 609 (3) Neuromotor Disorders
SCSD 616 (3) Audiology
SCSD 617 (3) Anatomy and Physiology: Speech and Hearing
SCSD 618 (3) Research and Measurement Methodologies 1
SCSD 619 (3) Phonological Development
SCSD 624 (3) Language Processes
SCSD 631 (3) Speech Science
<table>
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<tr>
<th>Course Code</th>
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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>
</tr>
<tr>
<td>SCSD 636</td>
<td>3</td>
<td>Fluency Disorders</td>
</tr>
<tr>
<td>SCSD 637</td>
<td>3</td>
<td>Developmental Language Disorders 1</td>
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<td>SCSD 638</td>
<td>3</td>
<td>Neurolinguistics</td>
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<tr>
<td>SCSD 639</td>
<td>3</td>
<td>Voice Disorders</td>
</tr>
<tr>
<td>SCSD 642</td>
<td>3</td>
<td>Aural Rehabilitation</td>
</tr>
<tr>
<td>SCSD 643</td>
<td>3</td>
<td>Developmental Language Disorders 2</td>
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<tr>
<td>SCSD 644</td>
<td>3</td>
<td>Applied Neurolinguistics</td>
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<tr>
<td>SCSD 646</td>
<td>4</td>
<td>Introductory Clinical Practicum</td>
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<tr>
<td>SCSD 669</td>
<td>3</td>
<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>
<td>3</td>
<td>Deglutition and Dysphagia</td>
</tr>
<tr>
<td>SCSD 681</td>
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<td>Practicum and Seminar 1</td>
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<tr>
<td>SCSD 682</td>
<td>1</td>
<td>Practicum and Seminar 2</td>
</tr>
<tr>
<td>SCSD 683</td>
<td>1</td>
<td>Practicum and Seminar 3</td>
</tr>
<tr>
<td>SCSD 684</td>
<td>1</td>
<td>Practicum and Seminar 4</td>
</tr>
<tr>
<td>SCSD 689</td>
<td>1</td>
<td>Management Cranio-Facial Disorders</td>
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</table>

**Complementary Courses (6 credits)**

Two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SCSD 664</td>
<td>3</td>
<td>Communication Sciences and Disorders 1</td>
</tr>
<tr>
<td>SCSD 666</td>
<td>3</td>
<td>Communication Sciences and Disorders 3</td>
</tr>
<tr>
<td>SCSD 667</td>
<td>3</td>
<td>Communication Sciences and Disorders 4</td>
</tr>
<tr>
<td>SCSD 670</td>
<td>3</td>
<td>Communication Sciences and Disorders 2</td>
</tr>
<tr>
<td>SCSD 678</td>
<td>3</td>
<td>Special Topics 4</td>
</tr>
</tbody>
</table>

**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.

**22.11.5.7 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)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SCSD 652</td>
<td>3</td>
<td>Advanced Research Seminar 1</td>
</tr>
<tr>
<td>SCSD 653</td>
<td>3</td>
<td>Advanced Research Seminar 2</td>
</tr>
<tr>
<td>SCSD 685</td>
<td>3</td>
<td>Research Project 1</td>
</tr>
<tr>
<td>SCSD 686</td>
<td>3</td>
<td>Research Project 2</td>
</tr>
<tr>
<td>SCSD 701</td>
<td>0</td>
<td>Doctoral Comprehensive</td>
</tr>
</tbody>
</table>
Complementary Courses (6 credits)
Minimum of 6 credits of graduate-level statistics from courses such as:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</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>EDPE 684</td>
<td>3</td>
<td>Applied Multivariate Statistics</td>
</tr>
<tr>
<td>EPIB 621</td>
<td>4</td>
<td>Data Analysis in Health Sciences</td>
</tr>
<tr>
<td>EPIB 622</td>
<td>3</td>
<td>Scientific Communication</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>

Any other course requirements specified for the student's individual program of study.

22.11.5.8 Doctor of Philosophy (Ph.D.); Communication Sciences and Disorders — Language Acquisition

Students must satisfy all program requirements for the Ph.D. in their home department. The Ph.D. thesis must be on a topic relating to language acquisition, approved by the LAP 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 (14 credits)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Title</th>
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<tbody>
<tr>
<td>EDSL 711</td>
<td>2</td>
<td>Language Acquisition Issues 3</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 652</td>
<td>3</td>
<td>Advanced Research Seminar 1</td>
</tr>
<tr>
<td>SCSD 653</td>
<td>3</td>
<td>Advanced Research Seminar 2</td>
</tr>
<tr>
<td>SCSD 701</td>
<td>0</td>
<td>Doctoral Comprehensive</td>
</tr>
<tr>
<td>SCSD 712</td>
<td>2</td>
<td>Language Acquisition Issues 4</td>
</tr>
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</table>

Complementary Courses (9 credits)

3 credits of graduate-level statistics from courses such as:

<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>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.

At least two courses, selected from the following list.

One of these two courses must be from outside Communication Sciences and Disorders.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDSL 620</td>
<td>3</td>
<td>Critical 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>
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</tbody>
</table>
22.11.6 Epidemiology and Biostatistics

22.11.6.1 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

22.11.6.2 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 health services research, 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, health economists, medical sociologists, and health geographers. Research in the Department spans all clinical specialties: pharmacoepidemiology; social epidemiology; infectious diseases; population and public health; environmental and occupational health; clinical and public health informatics; biostatistics; health care delivery and organization; 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, and industry.

22.11.6.3 Epidemiology and Biostatistics Faculty

Chair
G. Paradis

Emeritus Professors

M.R. Becklake; M.B.B.Ch., M.D.(Witw.), F.R.C.P.
A. Lippman; B.A.(Cornell), Ph.D.(McG.)
J.C. McDonald; M.B.B.S., M.D.(Lond.), M.Sc.(Harv.), M.R.C.P.(Lond.), F.R.C.P(C)
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.)
### Emeritus Professors


### Professors Post-Retirement

A. Lippman; B.A.(Cornell), Ph.D.(McG.)

I.B. Pless; B.A., M.D.(W. Ont.)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)


### Professors

M. Abrahamowicz; Ph.D.(Cracow) (*James McGill Professor*)

J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)

J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (*joint appt. with Medicine*) (*on leave Jan. to June 2015*)

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)

T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop’s), Ph.D.(McG.) (*on leave 2014–2015*)

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.) (*Canada Research Chair*) (*on leave Jan. to June 2015*)

M.S. Kramer; B.A.(Chic.), M.D.(Yale) (*joint appt. with Pediatrics*) (*James McGill Professor*)

J. McCusker; M.D.,C.M.(McG.), M.P.H., Ph.D.(Col.)

R. Menzies; M.D.,C.M., M.Sc.(McG.) (*joint appt. with Medicine*) (*on leave July 2014 to June 2015*)

O.S. Miettinen; M.D.(Helsinki), M.P.H., M.S., Ph.D.(Minn.)

G. Paradis; M.D.(Montr.), M.Sc.(McG.)

R.W. Platt; M.Sc.(Manit.), Ph.D.(Wash.) (*joint appt. with Pediatrics*)

S. Sissa; 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.)

O. Basso; Ph.D.(Milan) (*joint appt. with Obstetrics and Gynecology*)

D. Buckeridge; M.D.(Qu.), M.Sc.(Tor.), Ph.D.(Stan.) (*Canada Research Chair*)

A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome) (*on leave Jan. to Dec. 2014*)

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*)

C. Greenwood; B.Sc.(McG.), M.Sc.(Wat.), Ph.D.(Tor.) (*joint appt. with Oncology*)

P. Héroux; B.Sc.(Laval), M.Sc., Ph.D.(I.N.R.S.)

A. Labbe; M.Sc.(Montr.), Ph.D.(Wat.) (*joint appt. with Psychiatry*) (*on leave 2014–2015*)

E.E.M. Moodie; B.A.(Winn.), M.Phil.(Camb.), Ph.D.(Wash.)

M. Pai; M.B.B.S.(Stanley Med. Coll.), M.D.(Christian Medical Coll.), Ph.D.(Calif., Berk.)

C. Quach-Thanh; M.D.(Montr.), M.Sc.(McG.) (*joint appt. with Pediatrics*)

A. Quesnel-Vallée; B.A., M.Sc.(Montr.), M.A., Ph.D.(Duke) (*joint appt. with Sociology*)
**Associate Professors**

- M. Rossignol; B.Sc., M.D.(Sher.), M.Sc.(McG.)
- E. Strumpf; B.A.(Smith), Ph.D.(Harv.) (*joint appt. with Economics*) *(on leave Jan. to Dec. 2014)*
- T. Tannenbaum; B.A.(Brown), M.D.(Calg.), M.P.H.(Mass.), I.M.H.L.(McG.)
- 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)*
- A. Benedetti; B.Sc., M.Sc., Ph.D.(McG.) *(joint appt. with Medicine)*
- P. Chaudhuri; B.Sc.(Presidency); M.Stat.(Indian Statistical Institute), M.S., Ph.D.(Wash.)
- J. Chevrier; B.Sc., M.Sc.(Laval), Ph.D.(Calif., Berk.)
- S. Martin; M.D.(Tor.), M.Sc.(McG.) *(PT)*
- A. Nandi; B.S.(College of New Jersey), M.P.H.(Col.), Ph.D.(Johns Hop.) *(joint appt. with Institute for Health and Social Policy)*
- L. Patry; B.Sc., M.D.(Laval), F.R.C.P.(C) *(PT)*
- O.S. Saarela; M.Soc.Sc, Ph.D.(Helsinki)
- G. Tan; D.Phil.(Oxf.) *(PT)*
- 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
- **Dietetics and Human Nutrition:** K. Gray-Donald
- **Family Medicine:** A. Andermann, J. Haggerty, E. Robinson
- **Geography:** N. Ross
- **Neurology and Neurosurgery:** C. Renoux
- **Ob/Gyn:** H. Abenhaim, R. Gagnon
- **Oncology:** V. Dumeaux
- **Pathology:** B. Case
- **Pediatrics:** M. Ben Shoshan, G. Dougherty, P. Fontela, B. Foster, M. Zappitelli
- **Physical and Occupational Therapy:** S. Ahmed
- **Psychiatry:** E. Latimer, A. Malla, N. Schmitz, B. Thombs
- **Sociology:** S. Clark
- **Surgery:** D. Deckelbaum

**Lecturers**

- J.P. Courteau, J.P. Gauvin, M. Kafka, C. Paquette, N. Titri, W. Wood

**Adjunct Professors**

- **Asociación Civil Selva Amazónica Peru:** M. Casapia
- **Boehringer Ingelheim GmbH:** D. Bartels
- **Caro Research:** J. Caro
- **Direction régionale de la santé publique:** M. Baillargeon, G. Denis, A. Kossowski, R. Lessard, R. Massé, S. Palmieri, S. Perron, M. Roy
GRADUATE AND POSTDOCTORAL STUDIES

Adjunct Professors

Harvard Univ.: J. Brownstein

Independent: I. Arnold, J. Lemke, M. Schweigert, L. Scott

INSPQ: E. Lo, F. Richer, P. Robillard, D. Roy, S. Stock

Montreal Chest Hospital Centre: P. Rohan

Mount Sinai: M. Baltzan

Shire Inc.: A. Koutsavlis

Stabilis: P. Simon

Univ. de Montréal: J. Siemiarytcki

Univ. Medisch Centrum: P. Bruijnings

22.11.6.4 Epidemiology

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 health services research, 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, health economists, medical sociologists, and health geographers. Research in the Department spans all clinical specialties, pharmaco-epidemiology, social epidemiology, infectious diseases, population and public health, environmental and occupational health, clinical and public health informatics, biostatistics, health care delivery and organization, 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, and industry.

section 22.11.6.4.2: Master of Science (M.Sc.); Epidemiology (Thesis) (48 credits)

Applicants to the M.Sc. program should hold a bachelor's degree in the natural and quantitative sciences (e.g., microbiology, computer science, statistics, economics, geography) or social sciences (e.g., sociology, psychology, anthropology), 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 (differential and integral calculus) at the undergraduate level.

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 22.11.6.4.3: Master of Science (M.Sc.); Public Health (Non-Thesis) (60 credits)

The mission of the M.Sc.P.H. 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 and 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, nutrition). 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 health-related research. Graduates of the program will serve as public health practitioners, research professionals, and educators, 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's of Public Health program will include a three-month 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 22.11.6.4.4: Master of Science (M.Sc.); Public Health (Non-Thesis) — Environment (60 credits)

A number of departments and faculties throughout McGill University have joined with the McGill School of Environment (MSE) to provide an Environment Option as part of a variety of existing graduate degrees. 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 MSE, in partnership with participating academic units.
section 22.11.6.4.5: 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.

section 22.11.6.4.6: Doctor of Philosophy (Ph.D.); Epidemiology

This program may be of interest to students from the natural and 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, nutrition). Applicants must have an interest in health research, along with strong conceptual, analytic, and quantitative skills (differential and integral calculus) at the undergraduate level.

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 22.11.6.4.7: 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 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.

22.11.6.4.1 Epidemiology Admission Requirements and Application Procedures
22.11.6.4.1.1 Admission Requirements

The GRE is required of candidates who are health professional graduates from universities outside North America. 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 require documented proof of quantitative proficiency including good grades in college-level differential and integral calculus.

Master's in Epidemiology

Applicants to the M.Sc. in Epidemiology programs must hold a bachelor's degree in a related area.

Master's in Public Health

Applicants to the Master's of Public Health programs must hold a bachelor's degree in a related area.

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 at: www.mcgill.ca/epi-biostat-occh/grad/epidemiology.

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 section 5.3: 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/grad/epidemiology/applying, for information on required documents.

Additional Requirements

Please consult www.mcgill.ca/epi-biostat-occh/grad/epidemiology/applying for information on our requirements.

Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
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<tbody>
<tr>
<td>Fall: Dec. 15</td>
<td>Fall: Dec. 15</td>
<td>Fall: Apr. 30</td>
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<tr>
<td>Winter: N/A</td>
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<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

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 (22 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 602 (3) Foundations of Population Health
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 614 (1) Basics of Measurement in Epidemiology
EPIB 621 (4) Data Analysis in Health Sciences

Complementary Course (2 credits)

2 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

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.

Research Project (14 credits)

EPIB 630 (14) Public Health Project

Required Courses (25 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 602  (3)  Foundations of Population Health
EPIB 603  (4)  Intermediate Epidemiology
EPIB 605  (1)  Critical Appraisal in Epidemiology
EPIB 607  (4)  Inferential Statistics
EPIB 612  (3)  Principles of Public Health Practice
EPIB 613  (1)  Introduction to Statistical Software
EPIB 614  (1)  Basics of Measurement in Epidemiology
EPIB 621  (4)  Data Analysis in Health Sciences

**Complementary Courses (21 credits)**
13 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;
- Health services research policy and management;
- Population and public health interventions (social and behavioural science);
- Epidemiology in practice or field epidemiology.

8 credits of coursework, at the 500 level or higher.

Courses must be approved by the program's academic adviser.

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**22.11.644 Master of Science (M.Sc.); Public Health (Non-Thesis) — Environment (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.

**Research Project (14 credits)**

EPIB 630  (14)  Public Health Project

**Required Courses (31 credits)**

Students exempted from any of the courses listed below must replace them with additional complementary course 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
EPIB 601  (4)  Fundamentals of Epidemiology
EPIB 602  (3)  Foundations of Population Health
EPIB 603  (4)  Intermediate Epidemiology
EPIB 605  (1)  Critical Appraisal in Epidemiology
EPIB 607  (4)  Inferential Statistics
EPIB 612  (3)  Principles of Public Health Practice
EPIB 613  (1)  Introduction to Statistical Software
EPIB 614  (1)  Basics of Measurement in Epidemiology
EPIB 621  (4)  Data Analysis in Health Sciences

**Complementary Courses (15 credits)**
10 credits of coursework at the 500 level or higher, with a minimum of 2 credits chosen from each of the following fields:

- Health services research policy and management;
- Population and public health interventions (social and behavioural science);
- Epidemiology in practice or field epidemiology.

Courses must be approved by the program's academic adviser.

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 other courses at the 500 level or higher recommended by the Advisory Committee and approved by the Environmental Option Committee.

AND

2 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

**22.11.6.4.5 Master of Science (M.Sc.); Public Health (Non-Thesis) — Population Dynamics (60 credits)**

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.

**Research Project (14 credits)**

- EPIB 630 (14) Public Health Project

**Required Courses (31 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 602 (3) Foundations of Population Health
- EPIB 603 (4) Intermediate Epidemiology
- EPIB 605 (1) Critical Appraisal in Epidemiology
- EPIB 607 (4) Inferential Statistics
- EPIB 612 (3) Principles of Public Health Practice
- EPIB 613 (1) Introduction to Statistical Software
- EPIB 614 (1) Basics of Measurement in Epidemiology
- EPIB 621 (4) Data Analysis in Health Sciences
- 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;
Health services research policy and management;
Population and public health interventions (social and behavioural science);
Epidemiology in practice or field epidemiology.

Courses must be approved by 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:

- **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 525** (3) Health Care Systems in Comparative Perspective
- **EPIB 527** (3) Economics for Health Services Research and Policy
- **EPIB 528** (3) Economic Evaluation of Health Programs
- **EPIB 529** (3) Global Environmental Health and Burden of Disease
- **EPIB 615** (3) Introduction to Infectious Disease Epidemiology
- **EPIB 648** (3) Methods in Social Epidemiology
- **EPIB 681** (3) Global Health: Epidemiological Research
- **SOCI 512** (3) Ethnicity & Public Policy
- **SOCI 513** (3) Social Aspects HIV/AIDS in Africa
- **SOCI 520** (3) Migration and Immigrant Groups
- **SOCI 525** (3) Health Care Systems in Comparative Perspective
- **SOCI 535** (3) Sociology of the Family
- **SOCI 588** (3) Biosociology/Biodemography

**22.11.646 Doctor of Philosophy (Ph.D.); 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 27 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, 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 (15 credits)**

- **EPIB 604** (3) Epidemiologic Analysis
- **EPIB 608** (3) Advanced Epidemiology
- **EPIB 609** (3) Seminar on Advanced Methods in Epidemiology
- **EPIB 610** (3) Advanced Methods: Causal Inference
- **EPIB 623** (3) Research Design in Health Sciences
- **EPIB 701** (0) Ph.D. Comprehensive Examination
Complementary Courses (12 credits)
12 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in ethics (medical/public health/research), 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.

22.11.6.4.7 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 33 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, 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 (21 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIB 604</td>
<td>3</td>
<td>Epidemiologic Analysis</td>
</tr>
<tr>
<td>EPIB 608</td>
<td>3</td>
<td>Advanced Epidemiology</td>
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<td>EPIB 609</td>
<td>3</td>
<td>Seminar on Advanced Methods in Epidemiology</td>
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<td>EPIB 610</td>
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<td>Advanced Methods: Causal Inference</td>
</tr>
<tr>
<td>EPIB 623</td>
<td>3</td>
<td>Research Design in Health Sciences</td>
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<td>EPIB 701</td>
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<td>Ph.D. Comprehensive Examination</td>
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<tr>
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<td>Ph.D. Proposal</td>
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<tr>
<td>SOCI 545</td>
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<td>Sociology of Population</td>
</tr>
<tr>
<td>SOCI 626</td>
<td>3</td>
<td>Demographic Methods</td>
</tr>
</tbody>
</table>

Complementary Courses (12 credits)
12 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in ethics (medical/public health/research), 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>
<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 525</td>
<td>3</td>
<td>Health Care Systems in Comparative Perspective</td>
</tr>
<tr>
<td>EPIB 528</td>
<td>3</td>
<td>Economic Evaluation of Health Programs</td>
</tr>
<tr>
<td>EPIB 529</td>
<td>3</td>
<td>Global Environmental Health and Burden of Disease</td>
</tr>
<tr>
<td>EPIB 615</td>
<td>3</td>
<td>Introduction to Infectious Disease Epidemiology</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>SOCI 512</td>
<td>3</td>
<td>Ethnicity &amp; Public Policy</td>
</tr>
</tbody>
</table>
Courses must be chosen in consultation with the student's supervisor and/or the degree program's director or adviser.

### 22.11.6.5 Biostatistics

Biostatistics involves the development and application of statistical methods to scientific research in areas such as medicine, epidemiology, 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. They also develop new statistical methods for such data. Students will take courses, and may do research, on topics such as mathematical statistics, statistical methods for epidemiology, generalized linear models, survival analysis, longitudinal data, and clinical trials. The Department of Epidemiology, Biostatistics, and Occupational Health has one of the largest concentrations of Ph.D.-level statisticians in any Canadian Faculty of Medicine.

#### section 22.11.6.5.2: 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 22.11.6.5.3: 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 22.11.6.5.4: Doctor of Philosophy (Ph.D.); Biostatistics

Applicants should hold a master’s degree in mathematics or statistics or its equivalent. Mastery of calculus, linear algebra, real analysis, and mathematical statistics is essential. Exposure to data analysis is an asset. Exceptional students without a master’s degree will be considered for admission, starting with a Qualifying year. 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, and clinical trials. 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.

### 22.11.6.5.1 Biostatistics Admission Requirements and Application Procedures

#### 22.11.6.5.1.1 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 356/357. 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. Exceptional students without a master's degree but with the above qualifications will be considered for Ph.D. admission starting with a qualifying year.

Complete details on the Biostatistics programs are available on our Departmental website at: [www.mcgill.ca/epi-biostat-occh/grad/biostatistics](http://www.mcgill.ca/epi-biostat-occh/grad/biostatistics).

#### Language Requirement

Minimum TOEFL scores required, when applicable, of 100 on the Internet-based test. Minimum score for IELTS: 6.5.

#### 22.11.6.5.1.2 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 section 5.3: 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 at [www.mcgill.ca/epi-biostat-occh/grad/biostatistics/applying](http://www.mcgill.ca/epi-biostat-occh/grad/biostatistics/applying) for information on required application documents.

#### 22.11.6.5.1.3 Application Deadlines

The application deadlines listed here 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).
Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**22.11.6.5.2 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.

| 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 |

**22.11.6.5.3 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.

**22.11.6.5.4 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 700</td>
<td>Ph.D. Comprehensive Exam. A</td>
</tr>
<tr>
<td>BIOS 701</td>
<td>Ph.D. Comprehensive Exam. B</td>
</tr>
<tr>
<td>BIOS 702</td>
<td>Ph.D. Proposal</td>
</tr>
</tbody>
</table>

**Complementary Courses (28 credits)**

0-28 credits from the following list: (if a student has not already successfully completed them or their equivalent)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 601</td>
<td>Epidemiology: Introduction and statistical models</td>
</tr>
<tr>
<td>BIOS 602</td>
<td>Epidemiology: Regression Models</td>
</tr>
<tr>
<td>BIOS 624</td>
<td>Data Analysis &amp; Report Writing</td>
</tr>
<tr>
<td>MATH 523</td>
<td>Generalized Linear Models</td>
</tr>
<tr>
<td>MATH 533</td>
<td>Honours Regression and Analysis of Variance</td>
</tr>
<tr>
<td>MATH 556</td>
<td>Mathematical Statistics 1</td>
</tr>
<tr>
<td>MATH 557</td>
<td>Mathematical Statistics 2</td>
</tr>
</tbody>
</table>

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).

**22.11.7 Experimental Medicine**

Please see [section 22.11.11: Medicine, Experimental](#) for more information.

**22.11.8 Family Medicine Option**

Please see [section 22.11.12: Medicine, Family](#) for more information.

**22.11.9 Human Genetics**

**22.11.9.1 Location**

Department of Human Genetics  
Stewart Biological Sciences Building  
1205 Dr. Penfield Avenue, N5/13  
Montreal QC H3A 1B1  
Canada  

Telephone: 514-398-4198  
Fax: 514-398-2430  
Email: grad.hg@mcgill.ca  
Website: [www.mcgill.ca/humangenetics](http://www.mcgill.ca/humangenetics)

**Administration**

Kandace Springer – Administrative Assistant  

Email: kandace.springer@mcgill.ca
22.11.9.2 About Human Genetics

M.Sc. and Ph.D. Degrees in Human Genetics

The Department of Human Genetics offers a clinical master’s program in Genetic Counselling, as well as research training at both the M.Sc. and Ph.D. levels. Both the M.Sc. and Ph.D. 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. The Department also offers a Bioinformatics option. Information on the Bioinformatics option can be found at: www.mcgill.ca/mcb/academic/graduate.

Most of the faculty of the Human Genetics Department are located in McGill teaching hospitals, reflecting the medically learned knowledge at the core of human genetic studies.

Faculty have a wide variety of research interests, which embrace: cancer genetics, cytogenetics, reproductive biology, neurogenetics, and genomic and human genetic studies. Detailed information regarding faculty research interest can be found on the Department web page at www.mcgill.ca/humangenetics/prospective-students/supervision.

Students accepted into the Human Genetics research graduate program will receive a minimum stipend of $15,000, plus tuition and fees.

Tuition Differential Fee Waivers

A certain number of tuition differential fee waivers will be offered to incoming out-of-province/international students who have demonstrated outstanding academic achievement. Students who have a CGPA of 3.5 out of 4.0 or above (as converted by McGill GPS guidelines) and who submit online application and documents by March 31 (Fall), Sept. 30 (Winter) will automatically be considered for a tuition waiver.

section 22.11.9.5: 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, and 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 22.11.9.6: Master of Science (M.Sc.); Human Genetics (Thesis) — Bioinformatics (45 credits)

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 22.11.9.7: 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 22.11.9.8: 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 inheritance patterns and risks of recurrence, and review available options with the family. Some counsellors also work in administrative and academic roles.
section 22.11.9.8: Master of Science (M.Sc.); Genetic Counselling (Non-Thesis) (48 credits)

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 22.11.9.9: 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 22.11.9.10: Doctor of Philosophy (Ph.D.); Human Genetics — Bioinformatics

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.

22.11.9.3 Human Genetics Admission Requirements and Application Procedures

22.11.9.3.1 Admission Requirements

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 (five years or less) university-level courses in basic sciences (molecular/cell biology, biochemistry, advanced genetics (preferably human), and statistics) and a minimum of two in psychology.

Applicants must have obtained some experience (either paid or volunteer) working with adults in a counselling or advisory capacity, ideally in a crisis setting. 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 score of 600 on the TOEFL paper-based test (or 100 on the Internet-based test), with each component score no less than 20, as the minimum standard for admission.

M.Sc. and Ph.D. in Human Genetics

Prerequisites: B.Sc. – minimum CGPA 3.0 out of 4.0, or 3.2 out of 4.0 in the last two full-time academic years. Applicants must have a minimum of 6 credits in cellular and molecular biology or biochemistry, 3 credits in mathematics or statistics, and 3 credits in genetics. 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 score of 600 on the TOEFL paper-based test (or 100 on the Internet-based test), with each component score no less than 20, as the minimum standard for admission.

Admission is based on acceptance by a research director who has agreed to provide adequate funding for the duration of the academic program and on an evaluation by the Graduate Training Committee.

Prospective graduate students should complete the online application form and indicate at least three faculty members they are interested in working with.

22.11.9.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

22.11.9.3.3 Application Deadlines

The application deadlines listed here 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.
### Canadian Programs

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: March 31</td>
<td>Fall: March 31</td>
<td>Fall: Jan. 15</td>
<td>Fall: March 31</td>
<td>Fall: March 31</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: Sept. 30</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: Sept. 30</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td></td>
<td></td>
<td></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.

**Note:** Applications for Summer term admission will not be considered.

### 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.C. Fraser; B.Sc.(Acad.) M.Sc., Ph.D., M.D.,C.M., D.Sc.(McG), O.C., F.R.S.C.  
K. Glass; M.A.(Barat), B.C.L., D.C.L.(McG.)  
L. Pinsky; M.D.(McG.)  
C. Scrivener; B.A., M.D.,C.M.(McG.)

#### Professors

E. Andermann; M.Sc., Ph.D., M.D.,C.M.(McG.) (*Neurology and Neurosurgery*)  
W. Foulkes; B.Sc., MB.BS., Ph.D.(Lond.) (*Medicine*)  
F. Kaplan; B.A.(Col.), Ph.D.(McG.) (*Pediatrics*)  
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. Radzion; 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*)  
J. Trasler; M.D.,C.M., Ph.D.(McG.) (*William Dawson Scholar*) (*Pathology and Pediatrics*)
Professors

S. Vidal; Ph.D.(Genève) (Medicine)

Associate Professors

A. Ao; Ph.D.(Lond.) (OB/GYN)
G. Bourque; B.Sc.(Montr.), M.A., Ph.D.(USC) (Genome Quebec)
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)
J. Majewski; B.Sc., M.Sc.(Stan.), Ph.D.(Wesl.)
S. Melançon; M.D.(Montr.)
R. Nadon; B.A., M.A., Ph.D.(C’dia)
T. Pastinen; M.D., Ph.D.(Helsinki)
I. Ragoussis; Ph.D.(Tübingen)
L. Russell; B.A., M.D.(Ind.) (Pediatrics)
R. Slim; M.Sc.(Lebanese), M.Sc., Ph.D.(Paris VII)
P. Tonin; B.Sc., M.Sc., Ph.D.(Tor.) (Medicine)

Assistant Professors

R. Agatep; Ph.D.(Tor.) (Montreal Children's Hospital)
W. Al-Hertani; M.D.(Dal.) (Montreal Children's Hospital)
L. Beitel; Ph.D.(McG.) (Biochemistry)
D. Buhas; M.D.(Craiova) (Montreal Children's Hospital)
L. Cartier; B.Sc., M.Sc.(McG.)
G. Chong; Ph.D.(Kansas)
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)
M. Fujiwara; M.Sc.(Alta.) (Quantitative Genetics)
S. Gravel; Ph.D.(Physics)(Cornell) (Numerical methods)
E. Grundberg; Ph.D.(Uppsala) (Internal medicine)
Y. Joly; Ph.D.(McG.) (Centre of Genomics and Policy)
A. Karalis; M.D.,C.M.,(McG.)
P. Moffatt; Ph.D.(Montr.) (Pharmacology)
Y. Riaz Alhosseini; Ph.D.(Heidel.) (Genome Quebec)
V. Soleimani; Ph.D.(Ott.) (Jewish General Hospital)
R. Sladek; B.A.Sc., M.D.(Tor.)
Y. Yamanaka; Ph.D.(Osaka) (Goodman Cancer Research Centre)

Lecturers

L. Baret (Medicine)
N. Bolduc (Pediatrics)
S. Drury (Pediatrics)
S. Fox (Medicine)
L. Kasprzak (Medicine)
Lecturers
M. Lalou (Medicine)
L. Macrae (Medicine)
N. Palfreeman (Medicine)
L. Palma (Medicine)
C. Pouchet (JGH)
H. Rothenmund (Medicine)
A. Secord (Pediatrics)
G. Sillon (Medicine)
R. Vanneste (Pediatrics)
L. Whelton (Medicine)
N. Wong (Medicine)
S. Zaor (Medicine)

Adjunct Professors
T. Chiu (Children's Hospital of Eastern Ontario)
M. Cloutier (Children's Hospital of Eastern Ontario)
C. Goldsmith (Children's Hospital of Eastern Ontario)
B. Gottlieb (Medicine)
V.A. Hastings (Children's Hospital of Eastern Ontario)
C. Honeywell (Children's Hospital of Eastern Ontario)
A. Montpetit (Genome Quebec)

Adjunct Member
D. Vinh; M.D. (Dept. of Medical Microbiology; Medicine)

Associate Members
Biochemistry: P. Gros, D. Thomas
Bioethics: J. Kimmelman
Cardiology: J. Genest
Cancer Genetics: G. Zogopoulos
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
Pathology: A. Spatz
Psychiatry: R. Joober, G. Turecki, C. Ernst
Surgery: P. Roughley
### 22.11.9.5 Master of Science (M.Sc.); Human Genetics (Thesis) (45 credits)

#### Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 680</td>
<td>9</td>
<td>M.Sc. Thesis Research 1</td>
</tr>
<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>
</tr>
</tbody>
</table>

#### Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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 (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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 670</td>
<td>3</td>
<td>Advances in Human Genetics 1</td>
</tr>
<tr>
<td>HGEN 671</td>
<td>3</td>
<td>Advances in Human Genetics 2</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 694</td>
<td>3</td>
<td>Microarray Statistical Analysis</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>
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<td>HGEN 698</td>
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</tr>
<tr>
<td>HGEN 699</td>
<td>3</td>
<td>Advanced Readings in Genetics 4</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.

---

### 22.11.9.6 Master of Science (M.Sc.); Human Genetics (Thesis) — Bioinformatics (45 credits)

#### Thesis Courses (33 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 680</td>
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<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>
</tr>
</tbody>
</table>

#### Required Courses (6 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>HGEN 692</td>
<td>3</td>
<td>Human Genetics</td>
</tr>
</tbody>
</table>

#### Complementary Courses (6 credits)

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

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

22.11.9.7 Master of Science (M.Sc.); Human Genetics (Thesis) — Bioethics (45 credits)

Thesis Courses (30 credits)
30 credits selected as follows:

HGEN 681  (12)  M.Sc. Thesis Research 2
HGEN 682  (12)  M.Sc. Thesis Research 3
HGEN 683  (6)   M.Sc. Thesis Research 4

Required Courses (12 credits)
12 credits from:

BIOE 680  (3)  Bioethical Theory
BIOE 681  (3)  Bioethics Practicum
HGEN 662  (3)  Laboratory Research Techniques
HGEN 692  (3)  Human Genetics

Complementary Courses (3 credits)
3 credits from the following:

BIOE 682  (3)  Medical Basis of Bioethics
CMPL 642  (3)  Law and Health Care
PHIL 643  (3)  Seminar: Medical Ethics
RELG 571  (3)  Ethics, Medicine and Religion

22.11.9.8 Master of Science (M.Sc.); Genetic Counselling (Non-Thesis) (48 credits)

Required Courses (48 credits)

HGEN 600D1  (3)  Genetic Counselling Practicum
HGEN 600D2  (3)  Genetic Counselling Practicum
HGEN 601  (3)  Genetic Counselling Principles
HGEN 610D1  (3)  Genetic Counselling: Independent Studies
HGEN 610D2  (3)  Genetic Counselling: Independent Studies
HGEN 617  (3)  Principles of Medical Genetics
HGEN 620  (3)  Introductory Field Work Rotations 1
HGEN 621  (6)  Intro Field Work Rotations 2
HGEN 630D1  (6)  Advanced Field Work Rotations
HGEN 630D2  (6)  Advanced Field Work Rotations
HGEN 640  (3)  Second Year Practicum 1
Second Year Practicum 2 (3)
PATH 653 (3) Reading and Conference

22.11.9.9 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</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 692</td>
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<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</th>
<th>Credits</th>
<th>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 694</td>
<td>(3)</td>
<td>Microarray Statistical Analysis</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>
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<tr>
<td>HGEN 698</td>
<td>(3)</td>
<td>Advanced Readings in Genetics 3</td>
</tr>
<tr>
<td>HGEN 699</td>
<td>(3)</td>
<td>Advanced Readings in Genetics 4</td>
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</tbody>
</table>

Students are restricted to taking the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGEN 670</td>
<td>(3)</td>
<td>Advances in Human Genetics 1</td>
</tr>
<tr>
<td>HGEN 671</td>
<td>(3)</td>
<td>Advances in Human Genetics 2</td>
</tr>
</tbody>
</table>

Note: The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate.

22.11.9.10 Doctor of Philosophy (Ph.D.); Human Genetics — 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</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>
<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 (6 credits)**

* Two courses 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>

* 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.

---

### 22.11.10 Medical Physics

#### 22.11.10.1 Location

**Note:** The Unit is scheduled to move to the new Glen site of the MUHC in June 2015. Building and room numbers are to be confirmed.

Medical Physics Unit  
Montreal General Hospital  
Livingston Hall, Room L5-113  
1650 Cedar Avenue  
Montreal QC H3G 1A4  
Canada  
Telephone: 514-934-1934 ext. 44158  
Fax: 514-934-8229  
Email: margery.knewstubb@mcgill.ca  
Website: www.mcgill.ca/medphys

#### 22.11.10.2 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 Medical Physics through the Department of Physics.

The research interests of Unit members include various aspects of medical imaging including 3D imaging, the development of new imaging modalities, and 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 Medical Physics (ACMP), the American College of Radiology (ACR), and the Canadian College of Physicists in Medicine (CCPM).

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### section 22.11.10.5: Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 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...
section 22.11.10.5: Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 credits)

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.

22.11.10.3 Medical Physics Admission Requirements and Application Procedures

22.11.10.3.1 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.

22.11.10.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

For information regarding the application procedure please go to the Medical Physics Unit admissions website at www.mcgill.ca/medphys and click on Academic and then Admissions Information.

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 2015
“Department” = Medical Physics Unit
“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 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 and degree certificate must also be included.

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, 2013 for a graduate application to McGill for Fall 2015. Applicants from some countries are exempt from providing evidence of English language proficiency. For more information, see www.mcgill.ca/gradapplicants/apply/prepare/international/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; addresses such as Gmail or Yahoo will not be accepted.

22.11.10.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:
• GRE is not required for the Medical Physics M.Sc. program.
• Applicants must either complete the “Applicant Statement” portion of the online application, or alternatively, may submit a one-page Personal Statement.

221.10.33 Application Deadlines

The application deadlines listed here 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.

Students are admitted to the M.Sc. program only to start in the Fall term (in September) of a given academic year. Applications must be completed by January 15, 2015 to be considered for the Fall 2015 term. The online application for Fall 2015 will be available by the end of September 2014.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

221.10.4 Medical Physics Faculty

**Director**

J. Seuntjens

**Emeritus Professor**


**Professors**

S.M. Lehnert; B.Sc. (Nott.), M.Sc., Ph.D. (Lond.)

G.B. Pike; B.Eng. (St. John’s), M.Eng., Ph.D. (McG.)

J. Seuntjens; M.Sc., Ph.D. (Ghent), F.C.C.P.M., F.A.A.P.M

**Associate Professors**

I. El Naqa; B.Sc., M.S. (Jordan), Ph.D. (Chic.), M.A. (Wash.), D.A.B.R.

D. Louis Collins; M.Eng., Ph.D. (McG.), Post Doc. (Rennes), F.C.C.P.M.

A. Reader; B.Sc. (Kent), Ph.D. (Lond.)

**Assistant Professors**

F. DeBlois; M.Sc., Ph.D. (McG.), F.C.C.P.M.

S. Devic; M.Sc., Ph.D. (Belgrade), F.C.C.P.M.

M.D.C. Evans; B.A. (Qu.), M.Sc. (McG.), F.C.C.P.M.

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.

A. Sarfahnia; M.Sc., Ph.D. (McG.), F.C.C.P.M.

E. Soisson; M.Sc., Ph.D. (Wisc.)

G. Stroian; M.Sc. (McG.), Ph.D. (Montpellier), F.C.C.P.M.

A. Syme; B.Sc. (McM.), Ph.D. (Alta.), F.C.C.P.M.

**Associate Members**

R. Farivar-Mohsen, C. Janicki, I. Levesque

**Affiliate Members**

22.11.10.5 Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 credits)

Thesis Courses (32 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDPH 625</td>
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</tr>
</tbody>
</table>

Required Courses (28 credits)

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MDPH 601</td>
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<td>3</td>
<td>Applied Dosimetry</td>
</tr>
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<td>MDPH 603</td>
<td>2</td>
<td>Laboratory Practicum 1</td>
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<tr>
<td>MDPH 607</td>
<td>3</td>
<td>Introduction to 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 611</td>
<td>2</td>
<td>Medical Electronics</td>
</tr>
<tr>
<td>MDPH 612</td>
<td>2</td>
<td>Computers in Medical Imaging</td>
</tr>
<tr>
<td>MDPH 613</td>
<td>2</td>
<td>Health Physics</td>
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<tr>
<td>MDPH 614</td>
<td>3</td>
<td>Physics of Diagnostic Radiology</td>
</tr>
<tr>
<td>MDPH 615</td>
<td>3</td>
<td>Physics of Nuclear Medicine</td>
</tr>
<tr>
<td>MDPH 616</td>
<td>1</td>
<td>Selected Topics in Medical Physics</td>
</tr>
</tbody>
</table>

22.11.11 Medicine, Experimental

22.11.11.1 Location

Division of Experimental Medicine
Department of Medicine
Lady Meredith House, Room 101
1110 Pine Avenue West
Montreal QC H3A 1A3
Canada

Telephone: 514-398-3466
Fax: 514-398-3425
Email: experimental.medicine@mcgill.ca
Website: www.medicine.mcgill.ca/expmed

22.11.11.2 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 certain 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 22.11.11.5: 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, and infectious diseases. This is a thesis program that may lead to careers in industry, or serve as a stepping stone to further graduate studies.

section 22.11.11.6: 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
section 22.11.11.6: Master of Science (M.Sc.); Experimental Medicine (Thesis) — Bioethics (45 credits)

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 22.11.11.7: 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 22.11.11.8: Master of Science (M.Sc.); Experimental Medicine (Thesis) — Family Medicine (45 credits)

Ideal candidates for the M.Sc. Family Medicine Option would be practising family physicians or family medicine residents interested in conducting research in family medicine. Exceptionally, candidates from different backgrounds may be considered; i.e., allied health professionals and undergraduate students with relevant research backgrounds. This program is the first of its kind in Canada because it teaches rigorous research skills necessary to being successful researchers in the discipline of family medicine. It differs from the other programs in that it focuses on improving primary care delivery. All students are expected to complete a thesis to graduate. Graduates of this program may pursue careers in clinical or primary care research, government, or academia.

section 22.11.11.9: 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 specialties. 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 22.11.11.10: 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 22.11.11.11: Graduate Diploma in 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.

22.11.11.13 Medicine, Experimental Admission Requirements and Application Procedures

22.11.13.1 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. It is the policy of the Division that 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 Medicine, shall be 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 those who apply to the M.Sc. (Bioethics Option), the requirements, as well as the application deadlines, are different. For further information regarding this program, please refer to the Bioethics entry or visit their website at www.mcgill.ca/biomedicalresearch/units/masters.

M.Sc. (Environment Option)

For those applicants wishing to apply to the Master's program (Environment Option), it should be noted that, although the requirements and application deadlines remain the same, the student must remit additional documents that constitute their application to NOT ONLY the Division of Experimental
Medicine, but ALSO to the McGill School of Environment. All the relevant information can be found on the School of Environment website at [www.mcgill.ca/mse/programs/envroption](http://www.mcgill.ca/mse/programs/envroption).

The option of in-course addition of the Environment Option is also available to students in Experimental Medicine. For further information, students should refer to the departmental website or contact the Student Affairs Office.

**M.Sc. (Family Medicine Option)**

Ideal candidates for the M.Sc. (Family Medicine Option) are practising family physicians or family medicine residents interested in conducting research in family medicine. **Exceptionally**, candidates from different backgrounds may be considered (i.e., allied health professionals and undergraduate students with relevant research backgrounds). This program is the first of its kind in Canada because it teaches rigorous research skills for becoming successful researchers in the discipline of family medicine. It differs from the other programs in that it focuses on improving primary care delivery. All students are expected to complete a thesis to graduate. Graduates from this program may undertake careers in clinical or primary care research.

For those who apply to the M.Sc. (Family Medicine Option), the requirements, as well as the application deadline, are different. For further information regarding this program, please visit their website at: [www.mcgill.ca/familymed/research-grad/graduate-programs](http://www.mcgill.ca/familymed/research-grad/graduate-programs).

**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.

**2211132 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 section 5.3: Application Procedures for detailed application procedures.

**22111321 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), the M.Sc. (Environment Option), and the M.Sc. (Family Medicine option))

**2211133 Application Deadlines**

The application deadlines listed here are set by 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Canadian/Permanent Resident/Current International McGill students</th>
<th>International (except current McGill students)</th>
<th>Special/Exchange/Visiting</th>
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<tbody>
<tr>
<td>Fall: June 30</td>
<td>Fall: April 30</td>
<td>Fall: Same as Canadian/International</td>
</tr>
<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

**2211134 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)
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)
M. Behr; B.Sc.(Tor.), M.D.(Qu.), M.Sc.(McG.)
H. Bennett; B.A.(York, UK), Ph.D.(Brun.)
Professors

J. Bergeron; B.Sc.(McG.), Ph.D.(Oxf.)
A.E. Clarke; M.D.(Nfld.), M.S.(Stan.), F.R.C.P.(C)
M. Cosio; B.Sc.(Oviedo), M.D.(Madrid)
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.)
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.)
L. Kleiman; B.Sc.(Ill.), Ph.D.(Johns Hop.)
R. Kremer; M.D., Ph.D.(Paris VI)
S. Lehnert; B.Sc.(Nott.), M.Sc., Ph.D.(Lond.)
M. Levy; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)
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)
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)
W.J. Muller; B.Sc., Ph.D.(McG.)
A. Nepveu; B.Sc., M.Sc.(Montr.), Ph.D.(Sher.)
T. Nilsson; B.Sc., Ph.D.(Sweden)
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)
V. Papadopoulos; D.Pharm.(Athens), Ph.D.(Paris VI)
M. Park; B.Sc., Ph.D.(Glas.)
A.C. Peterson; B.Sc.(Vic., BC), Ph.D.(Br. Col.)
B.J. Petrof; M.D.(Laval)
M.N. Pollak; M.D.,C.M.(McG.), F.R.C.P.(C)
P. Ponka; M.D., Ph.D.(Prague)
B. Posner; M.D.(Manit.), F.R.C.P.(C)
W.S. Powell; B.A.(Sask.), Ph.D.(Dal.)
Professors
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.)
A.D. Sniderman; M.D.(Tor.)
C. Srikant; M.Sc., Ph.D.(Madr.)
M.M. Stevenson; B.A.(Hood), M.Sc., Ph.D.(Catholic U. of Amer.)
D.M.P. Thomson; M.D.(W. Ont.), Ph.D.(Lond.), F.R.C.P.(C)
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)
M. Wainberg; B.Sc.(McG.), Ph.D.(Col.)
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.-I. Yang; B.Sc.(Zhejiang), Ph.D.(Shanghai)
H. Zingg; M.D.(Basel), Ph.D.(McG.)

Associate Professors
S. Ali; B.Sc.(C'dia), Ph.D.(McG.)
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.)
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)
M. Culty; B.Sc., M.Sc.(Lyon), Ph.D.(Grenoble)
S. Daskalopoulou; M.D.(Athens)
F. Doualla-Bell; B.Sc., M.S., Ph.D.(Paris XI)
J.C. Engert; B.A.(Colby), Ph.D.(Boston)
E. Fixman; B.Sc.(Col.), Ph.D.(Johns Hop.)
B. Gagnon; M.D.(Laval), M.Sc.(McG.), F.R.C.P.(C)
R. Gagnon; B.Sc.(Montr.), M.D.(Laval), D.Phil.(Oxf.)
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.)
C. Haston; B.Sc.(W. Ont.), M.Sc.(Tor.), Ph.D.(Texas)
B. Jean-Claude; B.Sc., M.Sc.(Moncton), Ph.D.(McG.)
A. Kristof; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)
Associate Professors

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.)
M. Laughrea; B.Sc.(Laval), M.Sc., M.Phil., Ph.D.(Yale)
A.-M. Lauzon; B.Sc., M.Sc., Ph.D.(McG.)
J.-J. Lebrun; B.Sc., M.Sc.(Rennes), Ph.D.(Paris V)
S. Lehoux; B.Sc.(Bishop's), Ph.D.(Sher.)
S. Lemay; M.D.(Montr.), F.R.C.P.(C)
C. Liang; B.Sc., Ph.D.(Nankai)
R. Lin; B.Sc., M.Sc.(PRC), Ph.D.(C'dia)
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)
A. Mouland; B.A., B.Sc., Ph.D.(McG.)
S. Qureshi; B.Sc., M.D.(Alta.), F.R.C.P.(C)
J. Rauch; B.Sc., Ph.D.(McG.)
C. Rochelean; B.A.(Assum. Coll.), Ph.D.(Mass.)
M. Saleh; B.Sc., M.Sc.(Beirut), Ph.D.(McG.)
P. Siegel; B.Sc., Ph.D.(McM.)
G. Spurll; B.Sc.(Med.), M.D.(Manit.)
T. Takano; M.D., Ph.D.(Tokyo)
P. Tonin; B.Sc., M.Sc., Ph.D.(Tor.)
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. Colmegna; M.Sc.(Argentina)
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. Kokoeva; B.Sc.(Lomonosov Moscow), Ph.D.(Acad. of Sci., Moscow)
L. Koski; B.Sc.(Tor.), Ph.D.(McG.)
B. Mazzer; B.Sc.(Col.), M.D.,C.M.(McG.), F.R.C.P.(C)
M. Murshed; M.Sc.(Brussels), Ph.D.(Cologne)
E. Nashi; B.Sc., M.D.(Alta.), M.Sc.(McG.), Ph.D.(Northshore Medical Ctr.), F.R.C.P.(C)
D. Nguyen; M.D.,C.M.(McG.), F.R.C.P.(C)
M. Paliouras; B.Sc.(Tor.), M.Sc.(Flor.), Ph.D.(McG.)
R. Rajan; B.Sc., M.D.(Manit.), M.Sc.(McM.)
S. Rousseau; B.Sc., M.Sc., Ph.D.(Laval)
M. Sebag; B.Sc., Ph.D.(McG.), M.D.(Tor.), F.R.C.P.(C)
Assistant Professors
C. Seguin; B.Sc.(McG.), M.D.(Montr.), F.R.C.P.(C)
R. Sladek; B.Sc., M.D.(Tor.), F.R.C.P.(C)
H. Takahashi; M.D., Ph.D.(Gunma Univ.)
G. Thanassoulis; B.Sc., M.Sc.(McG.), M.D.(Tor.), F.R.C.P.(C)
E. Torban; B.Sc., M.Sc.(Russia), Ph.D.(McG.)

Associate Members, McGill

Associate Members, Université de Montréal

Associate Member, Pharmaceutical Industry
B. Gibbs

22.11.11.5 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>Title</th>
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</thead>
<tbody>
<tr>
<td>EXMD 690</td>
<td>3</td>
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<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.

22.11.11.6 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>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>
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</table>

Required Courses (6 credits)

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<tr>
<th>Course Code</th>
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<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:

- BIOE 682 (3) Medical Basis of Bioethics
- CMPL 642 (3) Law and Health Care
- PHIL 643 (3) Seminar: Medical Ethics
- RELG 571 (3) Ethics, Medicine and Religion

12 credits, four 3-credit BIOE or EXMD graduate courses (500, 600, or 700 level) chosen in consultation with the Supervisor.

---

### 22.11.11.7 Master of Science (M.Sc.); Experimental Medicine (Thesis) — Environment (45 credits)

#### Thesis Courses (24 credits)

- EXMD 690 (3) Master's Thesis Research 1
- EXMD 692 (9) Master's Thesis Research 3
- EXMD 693 (12) Master's Thesis Research 4

#### 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)

3 credits 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 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.

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### 22.11.11.8 Master of Science (M.Sc.); Experimental Medicine (Thesis) — Family Medicine (45 credits)

#### Thesis Courses (24 credits)

- EXMD 693 (12) Master's Thesis Research 4
- EXMD 694 (12) Master's Thesis Research 5

#### Required Courses (16 credits)

- EPIB 507 (3) Biostatistics for Health Professionals
- FMED 500 (1) Introduction to Research
FACULTY OF MEDICINE

FMED 504D1 (.5) Family Medicine Research Seminars
FMED 504D2 (.5) Family Medicine Research Seminars
FMED 600 (1) Mixed Studies Reviews
FMED 601 (3) Advanced Topics in Family Medicine Research
FMED 603 (1) Introduction to Participatory Research in Health
FMED 625 (3) Qualitative Health Research
FMED 672 (3) Applied Mixed Methods in Health Research

Complementary Courses (3 credits)
3 credits from the following:

EPIB 501 (3) Population Health and Epidemiology
EPIB 600 (3) Clinical Epidemiology

Elective Courses (2 credits)
Two (2) credits, at the 500 level or higher (chosen in consultation with the student’s academic adviser or supervisor).

22.11.11.9 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
EXMD 701D1 (0) Comprehensive Oral Examination
EXMD 701D2 (0) Comprehensive Oral Examination

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).

22.11.11.10 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)
ENVR 610 (3) Foundations of Environmental Policy
ENVR 650 (1) Environmental Seminar 1

McGill University, Graduate and Postdoctoral Studies, 2014-2015 (Published July 31, 2014)
Complementary Courses (12 credits)
(6-12 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 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.

22.11.11 Graduate Diploma in 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)

- EXMD 617 (1) Workshop in Clinical Trials 1
- EXMD 618 (1) Workshop in Clinical Trials 2
- EXMD 619 (1) Workshop: Clinical Trials 3
- EXMD 620 (1) Clinical Trials and Research 1
- EXMD 625 (1) Clinical Trials and Research 2
- EXMD 626 (1) Clinical Trials and Research 3

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)

- EXMD 627 (18) Practicum in Clinical Research

22.11.12 Medicine, Family

22.11.12.1 Location

Department of Family Medicine
5858 Côte-des-Neiges Road, Suite 300
Montreal QC H3S 1Z1
Telephone: 514-399-9103
Fax: 514-398-4202
Email: graduateprograms.fammed@mcgill.ca
About Family Medicine

22.11.12.2 About Family Medicine
The McGill Family Medicine department is home to an exceptional community of primary health care professionals, researchers, students, and support staff, whose mission is to contribute to the health of the population and the sustainability of the healthcare system in Quebec, as in Canada and internationally, by:

- Training residents, medical students, and other healthcare professionals to become committed to global GMF-type primary care, contributing to the accessibility, continuity, quality of care (patient-centred), and to health promotion and prevention;
- Promoting innovation in primary healthcare delivery and practice;
- Developing research and scholarly activity;
- Promoting curriculum innovation and education research;
- Engaging in international and global health activities.

We understand that research in Family Medicine is essential to the achievement of excellence in healthcare delivery, patient care, and education. Our research division is composed of Ph.D. and clinician scientists who dedicate their efforts to producing and translating knowledge that advances the discipline, practice, and teaching of family medicine, and supports scholarly achievement by clinicians and residents in the department. In addition, the department has developed unique and rigorous research programs for M.Sc. and Ph.D. students yearning to complete research in primary care.

Ph.D. (Ad Hoc)
The Department of Family Medicine offers the possibility of entering a Ph.D. program on an ad hoc basis.

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. Close links are maintained with the six family medicine clinical sites located around Montreal and Quebec.

Medicine, Family Admission Requirements and Application Procedures

22.11.12.3 Medicine, Family Admission Requirements and Application Procedures

22.11.12.3.1 Admission Requirements
Our program encourages the following applicants:

- Practicing family physicians
- International medical graduates
- 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 567 (paper-based test) or 86, with each component score not less than 20 (Internet-based test). 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 (GPS) and prospective students should refer to these in order to determine if they are admissible to our program.

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

See section 5.3: 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 of $102.60 which may be paid by credit card (Visa or Mastercard). 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, if applicable.

- **Letters of Reference:** Two (2) 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 abilities and aptitudes. 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 describe their background, research interests, and reasons for wishing to undertake the desired program. The statement should be no more than two (2) pages long.

- **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. only):** Applicants to our ad hoc Ph.D. program must upload a writing sample to review, preferably a thesis or a published article.

### 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. only)

### Application Deadlines

The application deadlines listed here are set by graduate departments 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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All supporting documents must be received by April 15. 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.

### Medicine, Family Faculty

**Chair**

Howard Bergman

**Graduate Program Director**

Gillian Bartlett

**Professors**

Howard Bergman; B.Sc.(McG.), M.D.,C.M.(McG.), C.C.F.P, F.R.C.P.(C)

Ann Macaulay; M.B., Ch.B.(St. And.), C.C.F.P.

Mark Yaffe; B.Sc., M.D.,C.M.(McG.), M.Cli.Sc.(W. Ont.)
**Associate Professors**

Gillian Bartlett; B.Sc., M.Sc., Ph.D.(McG.)
Eugene Bereza; B.A., M.D.,C.M.(McG.), C.C.F.P.
Roland Grad; M.D.,C.M.(McG.), M.Sc.(McM.), C.C.F.P.
Jeannie Haggerty; B.Sc.(S. Fraser), M.Sc., Ph.D.(McG.)
Susan Law; B.Sc.(Guelph), M.H.Sc.(Tor.), Ph.D.(Lond.)
Charo Rodriguez; M.D.(Alicante), M.P.H.(Valencia), Ph.D.(Montr.)
Ellen Rosenberg; B.A.(Smith), M.D.,C.M.(McG.), C.C.F.P.
Pierre Pluye; M.D.(P. Sabatier), M.Sc., Ph.D.(Montr.)
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)
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)
Isabelle Vedel; M.D.(Paris XI), D.E.A.(Sciences Po), Ph.D.(Reims Champagne-Ardenne)

**Associate Members**

Ross Andersen (Kinesiology and Physical Education)
Danielle Groleau (Psychiatry)
Patricia Li (Pediatrics)
Melissa Park (Physical and Occupational Therapy)
Christian Rochefort (Nursing)
Machelle Wilchesky (Medicine)

**Adjunct Professors**

Julie Bruneau (Montr.)
Yves Couturier (Sher.)
Janusz Kaczorowski (Montr.)
Edeltraut Kroger (CEVQ)

**22.11.125 Master of Science (M.Sc.); Family Medicine (Thesis) (45 credits)**

**Thesis Courses (24 credits)**

- **FMED 697** (12) Master's Thesis Research 1
- **FMED 698** (12) Master's Thesis Research 2

**Required Courses (20 credits)**

- **EPIB 601** (4) Fundamentals of Epidemiology
- **FMED 500** (1) Introduction to Research
- **FMED 504D1** (.5) Family Medicine Research Seminars
- **FMED 504D2** (.5) Family Medicine Research Seminars
- **FMED 505** (3) Basic Analysis for Health Data
- **FMED 600** (1) Mixed Studies Reviews
Elective Course

One (1) credit, at the 500 level or higher, of coursework may be chosen from outside the Department in consultation with the student’s academic adviser or supervisor.

22.11.13 Microbiology and Immunology

22.11.13.1 Location

Department of Microbiology and Immunology
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

22.11.13.2 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, and 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 22.11.13.5: 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 then 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. About 70% of the M.Sc. students elect to enter into our Ph.D. program. The remaining students advance their microbiology background by opting to enter into medicine, epidemiology, biotechnology, or pharmaceutical disciplines.

section 22.11.13.6: 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 graduate seminar and one 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.

22.11.13.3 Microbiology and Immunology Admission Requirements and Application Procedures

22.11.13.3.1 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.

The Test of English as a Foreign Language (TOEFL):

- Paper-Based Test (PBT): a minimum score of 567
- Internet-Based Test (iBT): a minimum overall score of 86 (no less than 20 in each in the four components)
- The International English Language Testing System (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.

**22.11.13.3.2 Application Procedures**

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

All applicants are encouraged to approach academic staff members during or before the application process since no applicants are accepted without a supervisor.

**22.11.13.3.1 Additional Requirements**

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

- Letter from a prospective supervisor

**22.11.13.3 Application Deadlines**

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**22.11.13.4 Microbiology and Immunology Faculty**

**Chair**

J. Madrenas

**Emeritus Professors**

Z. Ali-Khan, M. Baines, G. Faubert, R.A. MacLeod

**Professors**

A. Berghuis; M.Sc.(Rijks Univ. Groningen), Ph.D.(Br. Col.)
J.W. Coulton; B.Sc.(Tor.), M.Sc.(Calg.), Ph.D.(W. Ont.)
M. Gotte; Ph.D.(Max Planck)
J. Madrenas; M.D.(Barcelona), M.Sc., Ph.D.(Alta.)
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.)
M.A. Wainberg; B.Sc.(McG.), Ph.D.(Col.)
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.)
S. Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)
H. Le Moual; Ph.D.(Montr.)
G. T. Marczynski; B.Sc., Ph.D.(Ill.)
C. Piccirillo; B.Sc., Ph.D.(McG.)
D. Sheppard; M.D.(Tor.)

Assistant Professors

J. Fritz; Ph.D.(Vienna)
I. King; B.Sc.(Ohio St.), M.Sc.(Pitt. St.), Ph.D.(Roch.)
C. Krawczyk; Ph.D.(Tor.)
S. Sagan; B.Sc.(McG.), Ph.D.(Ott.)

Associate Members

Epidemiology and Infectious Diseases: M. Behr, A. Dascal, V. Loo
Immunology and Parasitology: P. Ribeiro, P. Rohrbach, B. Ward, M. Ndao, J. Zhang
Microbiology: M. Divangahi, C. Liang, D. Nguyen
Molecular Biology: N. Cermakian, S. Hussain, A. Jardim, A. Mouland, K. Pantopoulos, B. Turcotte
Virology: A. Gatignol, A.E. Koromilas, R. Lin, J. Teodoro

Adjunct Professors

J. Archambault
C. Cheong
A. Descoteaux
A. Finzi
G. Kukolj
P. Lau
S. Lauber
S. Lesage
A. Petronela
W-K. Suh

22.11.13.5 Master of Science (M.Sc.); Microbiology and Immunology (Thesis) (45 credits)

Thesis Courses (24 credits)

MIMM 697 (8) Master's Research 1
MIMM 698 (8) Master's Research 2
MIMM 699 (8) Master's Research 3

Required Courses (15 credits)
Graduate Seminars 1 (3) MIMM 611
Graduate Seminars 2 (3) MIMM 612
Current Topics 1 (3) MIMM 613
Current Topics 2 (3) MIMM 614
Current Topics 3 (3) MIMM 615

Complementary Courses (6 credits)
6 credits, two of the following courses:
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

Other courses may be required to strengthen the student’s background.

22.11.13.6 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)
MIMM 611 (3) Graduate Seminars 1
MIMM 612 (3) Graduate Seminars 2
MIMM 613 (3) Current Topics 1
MIMM 614 (3) Current Topics 2
MIMM 615 (3) Current Topics 3
MIMM 701 (0) Comprehensive Examination-Ph.D. Candidate
MIMM 713 (3) Graduate Seminars 3

Complementary Courses (12 credits)
(Minimum of 12 credits)
Three courses from List A and a minimum of three consecutive courses from List B.

List A:
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

List B:
MIMM 721 (1) Ph.D. Research Progress Report 1
MIMM 722 (1) Ph.D. Research Progress Report 2
Other courses may be required to strengthen the student's background.

**22.11.14 Neuroscience (Integrated Program in)**

**22.11.14.1 Location**

Montreal Neurological Institute, Room 141  
3801 University Street  
Montreal QC H3A 2B4  
Canada  
Fax: 514-398-4621  
Email: ipn@mcgill.ca or ipn.admissions@mcgill.ca  
Website: www.mcgill.ca/ipn

**22.11.14.2 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 160 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. As of 2010, 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. Students are required to submit a written thesis proposal (at the end of their first year for M.Sc. students, and at least one month prior to the Candidacy Examination 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.

3. 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.

4. An annual oral informal presentation of research work accomplished will be presented to the student's Advisory Committee.

5. 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.

6. 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 allowable 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.

7. 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 22.11.14.5: Master of Science (M.Sc.); Neuroscience (Thesis) (45 credits)**

The M.Sc. program offers opportunities to a wide 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 45 credits of academic and research training. Applicants must hold an undergraduate degree, or its equivalent, from a recognized institution and must display an adequate background in basic sciences. Applicants are expected to have attained a high scholastic standing equal to, or greater than, the minimum cumulative grade point average (CGPA) of 3.3 (out of 4.0 at McGill University) in all levels of study.
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. 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 M.D.-Ph.D. program through the Faculty of Medicine at McGill University. Students currently registered in the Master's program 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 at McGill University) in all levels of study. In exceptional circumstances, students 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.

22.11.14.3 Neuroscience (Integrated Program in) Admission Requirements and Application Procedures

22.11.14.3.1 Admission Requirements

General

The applicant must be a university graduate and hold a bachelor's degree in a field related to the subject selected for graduate work. 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 600 on the paper-based test (86 on the Internet-based test 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 master's degree in a field related to neuroscience, or an M.D. degree with postgraduate training. Students currently registered in the master's program in neuroscience may be permitted to transfer to the Ph.D. program. 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 sought. These decisions become an integral part of the graduation requirements for the student.

22.11.14.3.2 Application Procedures

McGill's online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

22.11.14.3.2.1 Additional Requirements

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

• Curriculum Vitae
• Personal Statement

22.11.14.3.3 Application Deadlines

The application deadlines listed here 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>
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<tr>
<th>Canadian</th>
<th>International</th>
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<td>Fall: Same as Canadian/International</td>
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<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
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<td>Summer: N/A</td>
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<td>Summer: 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.

22.11.14.4 Neuroscience (Integrated Program in) Faculty

Director

J. Nalbantoglu
Associate Director

J. Rochford

Emeritus Professors

B. Collier; Ph.D. (Dept. of Pharmacology)
M. Diksic; Ph.D. (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 Natn.), 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.(Paris), 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)
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 Anaesthesia)
P. Boksa; Ph.D.(McG.) (Dept. of Psychiatry)
C. Bourque; B.Sc.(Ott.), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
P. Braun; Ph.D.(Calif., Berk.) (Dept. of Biochemistry)
J.C.S. Breitner; M.D.(Pennsylvania), 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)
F. Cervero; M.D., Ph.D.(Madrid), D.Sc.(Edin.) (Dept. of Anaesthesia)
H. Chertkow; M.D.(W. Ont.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
P. Clarke; Ph.D.(Lond.) (Dept. of Pharmacology and Therapeutics)
T. Coderre; Ph.D.(McG.) (Depts. of Anaesthesia, Neurology and Neurosurgery, Psychology, and Experimental Medicine)
L. Collins; M.Eng., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
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. David; Ph.D.(Manit.) (Dept. of Neurology and Neurosurgery)
H. Durham; M.Sc.(W. Ont.), Ph.D.(Alta.) (Dept. of Neurology and Neurosurgery)
S. El Mestikawy; Ph.D.(Univ. Pierre et Marie Curie) (Dept. of Psychiatry)
A. Evans; M.Sc.(Sur.), Ph.D.(Leeds) (Dept. of Neurology and Neurosurgery)
C. Flores; Ph.D.(C'dia) (Dept. of Psychiatry)
E. Frombonne; M.D.(Paris V), M.Sc.(Paris) (Dept. of Psychiatry)
S.G. Gauthier; B.A., M.D.(Montr.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
Professors

B. Giros; Ph.D.(Paris) (Dept. of Psychiatry)
J. Gotman; M.Eng.(Dart.), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
A. Gratton; Ph.D.(C’dia) (Dept. of Psychiatry)
J. Grodzinsky; Ph.D.(Brandeis) (Dept. of Linguistics)
D. Guittion; 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. Hess; Ph.D.(Melb.), D.Sc.(Aston, UK) (Dept. of Ophthalmology)
P.C. Holland; B.A.(Lanc.,) Ph.D.(Newcastle, UK) (Dept. of Neurology and Neurosurgery)
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)
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. Luheshi; Ph.D.(Newcastle, UK) (Dept. of Psychiatry)
D. Maysinger; M.Sc., Ph.D.(Calif.-LA) (Dept. of Pharmacology and Therapeutics)
P.S. McPherson; M.Sc.(Manit.), Ph.D.(Iowa) (James McGill Professor) (Dept. of Neurology and Neurosurgery)
M.J. 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. Mogil; Ph.D.(Calif.-LA) (Dept. of Psychology)
K. Mullen; Ph.D.(Camb.) (Dept. of Ophthalmology)
G. Multhaup; Ph.D.(Cologne)
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) (Dept. of Neurology and Neurosurgery)
G. Plourdes; M.D.(Laval), M.Sc.(Ott.) (Dept. of Anaesthesia)
J. Poirier; Ph.D.(Montr.) (Dept. of Psychiatry and Medicine)
A. Ptito; 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.(Porto), 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)
### Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Departments</th>
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<tbody>
<tr>
<td>H. Schipper</td>
<td>M.D., Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>T. Schultz</td>
<td>M.Phil., Ph.D.</td>
<td>(Dept. of Psychology)</td>
</tr>
<tr>
<td>P. Seguela</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>M. Shevell</td>
<td>M.D., Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>E. Shoubridge</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>W. Sossin</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>L. Srivastava</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>S. Stifani</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>M. Sullivan</td>
<td>M.A., Ph.D.</td>
<td>(Dept. of Psychology)</td>
</tr>
<tr>
<td>G. Tannenbaum</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>G. Turecki</td>
<td>M.D., Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>C.-D. Walker</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>R. J. Zatorre</td>
<td>M.Sc., Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
</tbody>
</table>

### Associate Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Armony</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>S. Baillet</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>S. Beaulieu</td>
<td>M.D., Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>D. Bernard</td>
<td>Ph.D.</td>
<td>(Dept. of Pharmacology)</td>
</tr>
<tr>
<td>A. Bernasconi</td>
<td>Ph.D.</td>
<td>(Dept. of Neurology and Neurosurgery)</td>
</tr>
<tr>
<td>V. Bobbot</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>D. Boivin</td>
<td>M.D., Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>D. Bowie</td>
<td>Ph.D.</td>
<td>(Dept. of Pharmacology and Therapeutics)</td>
</tr>
<tr>
<td>A. Brunet</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>M. Cayouette</td>
<td>M.Sc., Ph.D.</td>
<td>(Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine)</td>
</tr>
<tr>
<td>N. Cermakian</td>
<td>Ph.D.</td>
<td>(Dept. of Psychiatry)</td>
</tr>
<tr>
<td>Y. Chadusama</td>
<td>Ph.D.</td>
<td>(Dept. of Psychology)</td>
</tr>
<tr>
<td>F. Charron</td>
<td>Ph.D.</td>
<td>(Institut de Recherches Clinique de Montreal, Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine)</td>
</tr>
<tr>
<td>J.-F. Cloutier</td>
<td>Ph.D.</td>
<td>(Depts of Neurology and Neurosurgery, and Anatomy and Cell Biology)</td>
</tr>
<tr>
<td>T. Codere</td>
<td>Ph.D.</td>
<td>(Dept of Anaesthesia)</td>
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<tr>
<td>E. Cook</td>
<td>Ph.D.</td>
<td>(Dept of Physiology)</td>
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<tr>
<td>A. Dagher</td>
<td>F.R.C.P.(C)</td>
<td>(Dept of Neurology and Neurosurgery)</td>
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<tr>
<td>S. Daniel</td>
<td>M.D., Ph.D.</td>
<td>(Dept of Otolaryngology)</td>
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<tr>
<td>B. Debruille</td>
<td>Ph.D.</td>
<td>(Univ. Pierre et Marie Curie, Paris)</td>
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<tr>
<td>L. Fellows</td>
<td>D.Phil.</td>
<td>(Dept of Neurology and Neurosurgery)</td>
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<tr>
<td>C. Flores</td>
<td>Ph.D.</td>
<td>(Dept of Psychiatry)</td>
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<tr>
<td>E. Fon</td>
<td>Ph.D.</td>
<td>(Dept of Neurology and Neurosurgery)</td>
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<tr>
<td>A. Fournier</td>
<td>Ph.D.</td>
<td>(Dept of Neurology and Neurosurgery)</td>
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<tr>
<td>I. Gold</td>
<td>Ph.D.</td>
<td>(Dept of Psychiatry)</td>
</tr>
<tr>
<td>V. Gracco</td>
<td>Ph.D.</td>
<td>(School of Communication Sciences and Disorders)</td>
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<tr>
<td>R. Gruber</td>
<td>Ph.D.</td>
<td>(Dept of Psychiatry)</td>
</tr>
</tbody>
</table>
Associate Professors

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)
A. Lamontagne; Ph.D.(Laval) (School of Physical and Occupational Therapy)
H.M. McBride; Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
A. McKinney; Ph.D.(Ulster) (Dept. of Pharmacology and Therapeutics)
N. Mechawar; Ph.D.(Montr.) (Dept. of Psychiatry)
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)
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.(China), Ph.D.(Tor.) (Dept. of Neurology and Neurosurgery)
A. Raz; M.Sc., Ph.D.(Hebrew) (Dept. of Psychiatry)
J. Rochford; Ph.D.(C’dia) (Dept. of Psychiatry)
B. Rosenblatt; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C) (Dept. of Neurology and Neurosurgery)
E. Ruthazer; A.B.(Princ.), Ph.D.(Calif.-San Francisco) (Dept. of Neurology and Neurosurgery)
R. Schirrmacher; Ph.D.(Mainz) (Dept. of Neurology and Neurosurgery)
A. Shmuel; B.Med., M.Sc.(Hebrew), Ph.D.(Weizmann Institute of Science) (Dept. of Neurology and Neurosurgery)
L. Stone; Ph.D.(Minn.) (Dept. of Dentistry)
A. Thiel; Ph.D.(Cologne), M.D.(Bonn) (Dept. of Neurology and Neurosurgery)
D. Van Meyel; Ph.D.(W. Ont.) (Dept. of Neurology and Neurosurgery)
S. Williams; Ph.D.(Montr.) (Dept. of Psychiatry)

Assistant Professors

A. Adamantidis; M.Sc., Ph.D.(Liege) (Dept. of Psychiatry)
B. Bedell; B.S.(Leigh), M.D.,C.M.(McG.), Ph.D.(Texas) (Dept. of Neurology and Neurosurgery)
F. Bedford; Ph.D.(Lond.) (Dept. of Anatomy and Cell Biology)
M. Berlim; M.D., M.Sc.(UFRGS) (Dept. of Psychiatry)
M. Brodeur; Ph.D.(McM.) (Dept of Psychiatry)
M.J. Chacron; B.Sc., Ph.D.(Ott.) (Dept. of Physiology)
B. Chen; Ph.D.(SUNY) (Dept. of Neurology and Neurosurgery)
Y. Chudasama; B.Sc., Ph.D.(Cardiff) (Dept. of Psychology)
E. de Villers-Sidani; M.D.(McG.) (Dept. of Ophthalmology)
C. Ernst; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(McG.) (Dept. of Psychiatry)
R. Farivar; B.Sc.(Vic., BC), Ph.D.(McG.) (Dept of Ophthalmology)
Assistant Professors

C. Grova; Ph.D.(Rennes) (Depts. of Biomedical Engineering & Neurology and Neurosurgery)
P. Haghighi; Ph.D.(McG.) (Dept. of Physiology)
K.L. Hyde; Ph.D.(Montr./McG.) (Depts. of Psychiatry and Neurology and Neurosurgery)
F. Jollant; M.D., M.Sc., Ph.D.(Montpellier) (Dept. of Psychiatry)
D. Klein; B.A., Ph.D.(Witw./S. Af.) (Dept. of Neurology and Neurosurgery)
E. Kobayashi; M.D., Ph.D.(Campinas State) (Dept. of Neurology and Neurosurgery)
M. Kokoeva; Ph.D.(Russian Acad. of Sci.) (Faculty of Medicine)
L. Koski; B.Sc.(Tor.), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
N. Ladbon-Bernasconi; M.D.(Lausanne), Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
A. Lamontagne; Ph.D.(Laval) (School of Physical and Occupational Therapy)
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)
L. Minter; Ph.D.(Berlin) (Dept. of Pharmacology and Therapeutics)
K. Petrecca; B.Sc., M.D., Ph.D.(McG.) (Dept. of Neurology and Neurosurgery)
P. Rosa-Neto; M.D., M.Sc.(UFRGS), Ph.D.(Aarhus) (Depts. Neurology and Neurosurgery, and 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)
D. Stellwagen; B.Sc.(Brown), Ph.D.(Calif.) (Dept. of Neurology and Neurosurgery)
K.-F. Storch; Ph.D.(Max Planck) (Dept. of Psychiatry)
T. Stroh; Dip.(J. Liebig U.), 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)
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
22.11.14.5 Master of Science (M.Sc.); Neuroscience (Thesis) (45 credits)

**Thesis Courses**
Any remaining credits needed to complete the minimum of 45 may be chosen from the following:

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<td>NEUR 696</td>
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**Required Courses (33 credits)**

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</tr>
<tr>
<td>NEUR 705</td>
<td>0</td>
<td>Responsible Research Conduct</td>
</tr>
</tbody>
</table>

and one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR 610</td>
<td>5</td>
<td>Central Nervous System</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>
</tbody>
</table>

**Complementary Courses (6 credits)**

6 credits in other graduate-level specialty courses relevant to the program.

Upon recommendation, depending upon their particular background and needs, students may be requested to take additional selected courses.

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.

22.11.14.6 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, and either NEUR 631 or NEUR 610). 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. Recently graduated M.D.s should have the equivalent of NEUR 610, and may be granted equivalence. 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 (3 credits)**

Note: A student may receive an exemption if the student can display equivalency for NEUR 630.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR 630</td>
<td>3</td>
<td>Principles of Neuroscience 1</td>
</tr>
<tr>
<td>NEUR 700</td>
<td>0</td>
<td>Doctoral Candidacy Examination</td>
</tr>
<tr>
<td>NEUR 705</td>
<td>0</td>
<td>Responsible Research Conduct</td>
</tr>
</tbody>
</table>

**Complementary Courses (11 credits)**

(9 - 11 credits)

Note: A student may receive exemptions if the student can display equivalencies for NEUR 631 and NEUR 610.

Students must take one of the following courses:
Central Nervous System

Principles of Neuroscience 2

Two courses at the 500, 600, or 700 level, approved by the graduate program adviser.

22.11.15 Occupational Health

22.11.15.1 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/occh

22.11.15.2 About Occupational Health

The Department of Occupational Health offers two graduate degree programs: a doctorate (Ph.D.) and master (M.Sc.(A.)) in occupational health sciences. The master's program is available on campus or in distance education format. Special Student status may be granted to students who wish to take only specific courses from our M.Sc. program. There is a maximum of 12 credits overall, with a maximum of 6 credits per semester.

Students are required to have access to a computer and the Internet as some of the course material is most readily available by accessing the web.

Note: We are not accepting applications for the Occupational Health Ph.D. or the M.Sc. (Distance) programs until further notice.

section 22.11.15.5: Master of Science, Applied (M.Sc.A.); Occupational Health (Resident) (Non-Thesis) (45 credits)

A one-year program in health and hygiene appropriate for physicians, nurses, and graduates from engineering and basic sciences. Occupational health training allows candidates to evaluate work environments and attenuate work hazards using prevention and control.

section 22.11.15.6: Master of Science, Applied (M.Sc.A.); Occupational Health (Distance) (Non-Thesis) (45 credits)

This program is not accepting applicants for 2014–2015.

A three-and-a-half-year program completed mostly over the Internet.

section 22.11.15.7: Doctor of Philosophy (Ph.D.); Occupational Health

This program is not accepting applicants for 2014–2015.

The objective of this program is to train independent researchers in the field of work environment and health.

22.11.15.3 Occupational Health Admission Requirements and Application Procedures

22.11.15.3.1 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 550, or 86 on the Internet-based test 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, 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, 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.).

### 2211.1532 Application Procedures


**Resident (on campus)**

Eligible candidates may be invited for an interview with members of the Admissions Committee of the Department.

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.

### 2211.1532 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

### 2211.1533 Application Deadlines

The application deadlines listed here 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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<th>Canadian</th>
<th>International</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Apr. 30</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/Summer term admission will not be considered, with the exception of admission as Special Students in the Winter term.

22.11.15.4 Occupational Health Faculty

Chair
G. Paradis

Emeritus Professors
M.R. Becklake; M.B.B.Ch., M.D.(Witw.), F.R.C.P.
A. Lippman; B.A.(Cornell), Ph.D.(McG.)
J.C. McDonald; M.D., B.S.(Lond.), M.Sc.(Harv.), F.R.C.P.(C)
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
A. Lippman; B.A.(Cornell), Ph.D.(McG.)
I.B. Pless; B.A., M.D.(W. Ont.)
G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

Professors
M. Abrahamowicz; Ph.D.(Cracow) (James McGill Professor)
J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)
J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (joint appnt. with Medicine)
E.L.F. Franco; M.P.H., Dr.P.H.(Chapel Hill) (joint appnt. with Oncology) (James McGill Professor)
R. Fuhrer; B.A.(CUNY (Brooklyn College)), M.Sc., Ph.D.(Calif.-San Francisco)
T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop's), Ph.D.(McG.) (on leave Sept. 2014 to Aug. 2015)
J.A. Hanley; B.Sc., M.Sc.(NU), 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.) (Canada Research Chair) (on leave Jan. to June 2015)
M.S. Kramer; B.A.(Chic.), M.D.(Yale) (joint appnt. with Pediatrics) (James McGill Professor)
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.)
G. Paradis; M.D.(Montr.), M.Sc.(McG.)
R.W. Platt; M.Sc.(Man.), Ph.D.(Wash.) (joint appnt. with Pediatrics)
S. Suissa; M.Sc.(McG.), Ph.D.(Flor.) (joint appnt. with Medicine) (James McGill Professor)
R. Tamblyn; M.Sc.(McM.), Ph.D.(McG.) (joint appnt. with Medicine) (James McGill Professor)
## Professors
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.)
O. Basso; Ph.D.(Milan) *(joint appt. with Obstetrics and Gynecology)*
D. Buckeridge; M.D.(Qu.), M.Sc.(Tor.), Ph.D.(Stan.) *(Canada Research Chair)*
A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome) *(joint appt. with Obstetrics and Gynecology)*
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 I.T.), Ph.D.(McG.) *(PT) (joint appt. with Medicine)*
C. Greenwood; B.Sc.(McG.), M.Sc.(Wat.), Ph.D.(Tor.) *(joint appt. with Oncology)*
P. Heroux; B.Sc.(Laval), M.Sc., Ph.D.(I.N.R.S.)
A. Labbe; M.Sc.(Montr.), Ph.D.(Wat.) *(joint appt. with Psychiatry) (on leave Sept. 2014 to Aug. 2015)*
E.E.M. Moodie; B.A.(Winn.), Ph.D.(Wash.)
M. Pai; M.B.B.S.(Stanley Medical College), M.D.(Christian Medical College), Ph.D.(Calif., Berk.)
C. Quesnel-Vallee; B.A., M.Sc.(Montr.), M.A., Ph.D.(Duke) *(joint appt. with Sociology)*
M. Rossignol; B.Sc., M.D.(Sher.), M.Sc.(McG.), F.R.C.P.(C)
E. Strumpf; B.A.(Smith), Ph.D.(Harv.) *(joint appt. with Economics) (on leave Jan. to Dec. 2014)*
T. Tannenbaum; B.A.(Brown), M.D.(Calg.), M.P.H.(Mass.), IMHL(McG.)
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 for Health and Social Policy)*
A. Benedetti; B.Sc., M.Sc., Ph.D.(McG.) *(joint appt. with Medicine)*
J. Chevrier; B.Sc., M.Sc.(Laval), Ph.D.(Calif., Berk.)
S. Harper; B.A.(Westminister), M.S.P.H.(S. Carolina), Ph.D.(Mich.)
S. Martin; M.D.(Tor.), M.Sc.(McG.) *(PT)*
A. Nandi; B.S.(College of New Jersey), M.P.H.(Col.), Ph.D.(Johns Hop.) *(joint appt. with Institute for Health and Social Policy)*
L. Patry; B.Sc., M.D.(Laval), F.R.C.P.(C) *(PT)*
O.S. Saarela; M.Soc.Sc., Ph.D.(Helsinki)
G. Tan; D.Phil.(Oxf.) *(PT)*
S. Yang; B.A.(Ajou), M.Sc.(McG.), Ph.D.(Mich.)

## Associate Members
**Biomedical Ethics Unit:** J. Kimmelman, N. King

**Dietetics and Human Nutrition:** K. Gray-Donald

**Dentistry:** P. Allison, J. Feine

**Family Medicine:** A. Andermann, J. Haggerty, E. Robinson

**Geography:** N. Ross

Master of Science, Applied (M.Sc.A.); Occupational Health (Resident) (Non-Thesis) (45 credits)

Research Project (15 credits)

<table>
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<th>Course</th>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>OCCH 699</td>
<td>15</td>
<td>Project Occupational Health and Safety</td>
</tr>
</tbody>
</table>

Required Courses (30 credits)

Note: Students must pass the Master's Integrative Examination (OCCH 600) before writing their Project.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCCH 600</td>
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<td>Master's Integrative Exam</td>
</tr>
<tr>
<td>OCCH 602</td>
<td>3</td>
<td>Occupational Health Practice</td>
</tr>
<tr>
<td>OCCH 603</td>
<td>3</td>
<td>Work and Environment Epidemiology I</td>
</tr>
<tr>
<td>OCCH 604</td>
<td>3</td>
<td>Monitoring Occupational Environment</td>
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<tr>
<td>OCCH 605</td>
<td>6</td>
<td>Physical Health Hazards</td>
</tr>
<tr>
<td>OCCH 608</td>
<td>3</td>
<td>Biological Hazards</td>
</tr>
<tr>
<td>OCCH 612</td>
<td>3</td>
<td>Principles of Toxicology</td>
</tr>
<tr>
<td>OCCH 614</td>
<td>3</td>
<td>Topics in Occupational Health</td>
</tr>
</tbody>
</table>
**This program is currently not accepting applicants.**

### Master of Science, Applied (M.Sc.A.); Occupational Health (Distance) (Non-Thesis) (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.

Each course has a final (proctored) examination at the end of the term.

- OCCH 600 (0) Master's Integrative Exam
- OCCH 602 (3) Occupational Health Practice
- OCCH 603 (3) Work and Environment Epidemiology 1
- OCCH 604 (3) Monitoring Occupational Environment
- OCCH 608 (3) Biological Hazards
- OCCH 612 (3) Principles of Toxicology
- OCCH 615 (3) Occupational Safety Practice
- OCCH 616 (3) Occupational Hygiene
- OCCH 617 (3) Occupational Diseases
- OCCH 624 (3) Social and Behavioural Aspects - Occupational Health
- OCCH 625 (3) Work and Environment Epidemiology 2
- OCCH 626 (3) Basics: Physical Health Hazards
- OCCH 627 (3) Work Physiology and Ergonomics
- OCCH 630 (3) Occupational Diseases for OHNS
- OCCH 635 (3) Environmental Risks to Health

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.

### 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)**

- OCCH 700 (0) Ph.D. Comprehensive Examination
- OCCH 706 (2) Ph.D. Seminar on Occupational Health and Hygiene

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.
22.11.16 Otolaryngology – Head and Neck Surgery

22.11.16.1 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. 3179
Fax: 514-340-7934
Website: www.mcgill.ca/ent

22.11.16.2 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 22.11.16.5: 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.

22.11.16.3 Otolaryngology Admission Requirements and Application Procedures

22.11.16.3.1 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.) with a strong interest in Otolaryngology Research will be considered.

The results of the Test of English as a Foreign Language (TOEFL) (minimum of 550 on the paper-based test or 86 on the Internet-based test with each component score not less than 20) 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).

22.11.16.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Prospective students should contact research supervisors individually.

22.11.16.3.1.1 Additional Requirements

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

• Curriculum Vitae
• Personal Statement
• Acceptance by a research supervisor

22.11.16.3.3 Application Deadlines

The application deadlines listed here 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.ca/gps/contact/graduate-program.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: March 15</td>
<td>Fall: March 15</td>
<td>Fall: March 15</td>
</tr>
<tr>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
</tr>
<tr>
<td>Summer: Jan. 15</td>
<td>Summer: Jan. 15</td>
<td>Summer: Jan. 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.

### 22.11.16.4 Otolaryngology – Head and Neck Surgery Faculty

**Chair**
S. Frenkiel

**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 Education**
L. Nguyen

**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)
M.D. 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)
N. Fanous; M.B., B.CH.(Cairo), F.R.C.S.(C)
M. Hier; M.D.,C.M.(McG.), F.R.C.S.(C)
K. Kost; M.D.,C.M.(McG.), F.R.C.S.(C)
J. Manoukian; M.B., Ch.B.(Alex.), F.R.C.S.(C)
W.H. Novick; M.D.(Qu.), F.R.C.S.(C)
J. Rappaport; M.D.(Dal.), 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)
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.(Pierre et Marie Curie), Ph.D.(Collège de France)
Assistant Professors
A. Mlynarek; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
L. HP. Nguyen; M.D.,C.M.(McG.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)
R. Payne; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)
M. Samaha; M.D.(Qu.), M.Sc.(Otol.)(McG.), 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)

Associate Members
K. E. Cullen; Ph.D.(McG.)
W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.)
H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)
Q. Hamid; M.D.(Iraq), Ph.D.Med.(Lond.)
L. Mongeau; B.Sc., M.Sc.(Montr.), Ph.D.(Penn. St.)

Lecturers
R. Caouette, A. Finesilver, J. Rothstein, T.T. Vi Vu, J. Young

Adjunct Professor
Véronique Isabelle Forest; M.D., M.Sc.(Exp. Med.)(Laval), F.R.C.S.(C)

22.11.165 Master of Science (M.Sc.); Otolaryngology (Thesis) (45 credits)

Thesis Courses (30 credits)
OTOL 690 (3) M.Sc. Thesis 1
OTOL 691 (3) M.Sc. Thesis 2
OTOL 692 (6) M.Sc. Thesis 3
OTOL 693 (6) M.Sc. Thesis 4
OTOL 694 (12) M.Sc. Thesis 5

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.

OTOL 602 (3) Physiology, Histopathology and Clinical Otolaryngology 1
OTOL 603 (3) Advanced Scientific Principles - Otolaryngology 1
OTOL 612 (3) Physiology, Histopathology and Clinical Otolaryngology 2
OTOL 613 (3) Advanced Scientific Principles - Otolaryngology 2

Complementary Course
(3-4 credits)
EPIB 507 (3) Biostatistics for Health Professionals

or equivalent.
Students aiming to acquire an interdisciplinary background will be expected to take additional elective courses, at the undergraduate level if necessary.

22.11.17 Pathology

22.11.17.1 Location

Department of Pathology
Duff Medical Building
3775 University Street
Montreal QC H3A 2B4
Canada

Telephone: 514-398-7192, ext. 00481 or 00494
Fax: 514-398-3465
Email: pathologyteaching.med@mcgill.ca
Website: www.mcgill.ca/pathology

22.11.17.2 About Pathology

Pathology is the science of disease, and research in pathology is focused on understanding the cellular and molecular changes that cause disease, generating knowledge that is essential in the development of new methods for prevention and treatment. Pathology is a multidisciplinary science, and laboratory techniques overlap those used in all current fields of biomedical investigation. We offer unique opportunities for graduate students to conduct fundamental biomedical research that is directly linked to patient care, working with teams of highly experienced investigators and clinicians. Our laboratories are located on the main campus and throughout the McGill network of hospitals and research institutes. Our investigators collaborate with basic scientists from a variety of other departments, and undertake collaborative studies with colleagues in academic institutions around the world. Graduate students take part in joint clinical-experimental presentations involving our 48 faculty members, gaining broad exposure to current issues in diagnosis and treatment of disease. This opportunity to combine basic research and potential applications offers very exciting possibilities for a highly rewarding career. The Pathology Department offers research training in a wide variety of areas such as immunology and transplantation, neoplasia, ophthalmic pathology, cell biology, pulmonary vascular and airways disease, pulmonary edema, neurodegenerative disorders, and smooth muscle pathophysiology.

Modern techniques and equipment include light, fluorescence and electron microscopy (both transmission and scanning), laser capture, DNA analysis, cell culture, advanced immunological, pharmacological, biochemical, and physiological techniques, as well as morphometry and computer-aided analysis.

22.11.17.5: 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.

22.11.17.6: 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.

22.11.17.3 Pathology Admission Requirements and Application Procedures

22.11.17.3.1 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.

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 GRE and TOEFL examinations in order to be properly evaluated as to their suitability.

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.) and have some 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.

22.11.17.3.2 Application Procedures

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

See section 5.3: 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.

22.11.17.21 Additional Requirements

- Personal Statement
- Curriculum Vitae
- Research Proposal
- GRE may be required for non-Canadian applicants

22.11.17.33 Application Deadlines

The application deadlines listed here 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.

<table>
<thead>
<tr>
<th></th>
<th>International</th>
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<td></td>
</tr>
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<td>Fall: June 30</td>
<td>Fall: May 1</td>
<td>Fall: Same as Canadian/International</td>
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<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Aug. 15</td>
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</tr>
<tr>
<td>Summer: March 7</td>
<td>Summer: Feb. 7</td>
<td>Summer: Same as Canadian/International</td>
</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

22.11.17.4 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. Ferency; B.A., B.Sc., M.D. (Montr.)
R. Fraser; B.Sc., M.D., M.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., M.C.M. (McG.), F.R.C.P.(C)
J.B. Richardson; B.Sc., M.D., M.C.M., Ph.D. (McG.), F.R.C.P.(C)
A. Spatz; M.Sc. (Paris XI), M.D. (Paris VI)

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)
B. Case; B.Sc., M.D., M.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. (Univ. of Athens), Ph.D. (Qu.), F.R.C.P.(C)
V.A. Marcus; M.D., M.C.M. (McG.), F.R.C.P.(C)
A. Nahal; M.D. (Aleppo)
Associate Professors

R. Onerheim; M.D.(Alta.), F.R.C.P.(C)
M. Pelmus; M.D., Ph.D.(Univ. of Athens)
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

S. Albrecht; M.D.(Sher.), F.R.C.P.(C)
M. Alameldin; M.D. (Egypt), F.R.C.P.(C)
O. Aleynikova; M.D.(Dal.), F.R.C.P.(C)
R.D. 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.A. Brandao; M.D.(UFJF)
F. Brimo; M.D.(Damascus), F.R.C.P.(C)
D. Caglar; M.D.(Gazi)
P.J. Chauvin; M.Sc.(W. Ont.), D.D.S.(McG.)
A. Florea; M.D.(Iuliu Ha iegamu)
L. Fu; M.D., C.M.(McG.), M.Sc.(McG.), F.R.C.P.(C)
A. Gologan; M.D.(Carol Davila, Bucharest)
S.-M. Jung; M.D.(Chonnam Nat.)
Y. Kanber; M.D.(Marmara)
J. Lavoie; B.Sc., M.Sc., Ph.D.(Laval)
H.R. Lopez-Valle; M.D.
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)
S. Sandhu; M.B., B.S.(India)
H. Srolovitz; B.Sc.(Pitt.), M.D.(Basel)
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. Abulkarim, M.D., Ph.D.(Paris XI)
C.J. Baglole; M.Sc.(PEI), Ph.D.(Calg.)
M. Divangahi; Ph.D.(McG.)
A. Giaid; D.V.M.(Baghdad), Ph.D.(Lond.)
P. Metrakos; M.D., C.M.(McG.), F.R.C.S.(C)
V. Papadopoulos; D.Pharm.(Univ. of Athens), Ph.D.(Paris VI)
M. Park; Ph.D.(Glasgow), F.R.S.C.
S. Sabri; Ph.D.(Paris VII)
Adjunct Professors

Y. Daze; M.D.(Laval)

**22.11.17.5 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)**

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<thead>
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<td>PATH 690</td>
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</tr>
<tr>
<td>PATH 691</td>
<td>9</td>
<td>M.Sc. Thesis Research Project 2</td>
</tr>
<tr>
<td>PATH 692</td>
<td>12</td>
<td>M.Sc. Thesis Research Project 3</td>
</tr>
</tbody>
</table>

**Required Courses (6 credits)**

<table>
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<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
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<tr>
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<td>3</td>
<td>Research Seminar 1</td>
</tr>
<tr>
<td>PATH 622</td>
<td>3</td>
<td>Research Seminar 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (9 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>PATH 613</td>
<td>3</td>
<td>Research Topics in Pathology 1</td>
</tr>
<tr>
<td>PATH 614</td>
<td>3</td>
<td>Research Topics in Pathology 2</td>
</tr>
</tbody>
</table>

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.

**22.11.17.6 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PATH 613</td>
<td>3</td>
<td>Research Topics in Pathology 1</td>
</tr>
<tr>
<td>PATH 614</td>
<td>3</td>
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<tr>
<td>PATH 620</td>
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<td>Research Seminar 1</td>
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<tr>
<td>PATH 622</td>
<td>3</td>
<td>Research Seminar 2</td>
</tr>
<tr>
<td>PATH 701</td>
<td>0</td>
<td>Comprehensive Examination - Ph.D. Candidates</td>
</tr>
</tbody>
</table>

**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.
22.11.18 Pharmacology and Therapeutics

22.11.18.1 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

22.11.18.2 About Pharmacology and Therapeutics

The Department of Pharmacology and Therapeutics offers training leading to M.Sc. (Thesis) and Ph.D. degrees. The Department also offers the Chemical Biology Interdisciplinary Graduate Option, together with the Departments of Biochemistry and Chemistry. Students interested in training in this option must first be accepted for graduate studies by one of the participating departments. Information on this option can be found at www.mcgill.ca/biochemistry/graduate-studies-2/chemicalbiology.

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, endocrine, receptor, cardiovascular, cancer, developmental, autonomic, clinical, and biochemical pharmacology, molecular biology, and toxicology.

The present 52 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, Royal Victoria Hospital, Montreal Heart Institute, Lady Davis Research Institute, Pfizer Canada, and Merck Frosst Canada Inc. (Note that MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.) The participation of researchers from both industry and government ensures the relevance of the Department's applications-oriented training programs.

section 22.11.18.5: 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.

section 22.11.18.6: Master of Science (M.Sc.); Pharmacology (Thesis) — Chemical Biology (47 credits)

The Chemical Biology Thematic Group is engaged in a diverse range of research topics that 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.

section 22.11.18.7: 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.

section 22.11.18.8: Doctor of Philosophy (Ph.D.); Pharmacology — Chemical Biology

The Chemical Biology Thematic Group is engaged in a diverse range of research topics that 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 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.
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.

**22.11.18.3 Pharmacology and Therapeutics Admission Requirements and Application Procedures**

**22.11.18.3.1 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.

**Admissions Requirements – Chemical Biology Option**

As for the regular graduate programs of the participating departments, acceptance into the Chemical Biology option consists of two steps:

1. Preliminary approval by the Department's Graduate 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 those for the regular graduate programs of the participating departments.
2. Acceptance by an individual research director. For students wishing to participate in the Chemical Biology option, 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 Chemical Biology Program Committee.

**22.11.18.3.2 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 **section 5.3: Application Procedures** for detailed application procedures.

**22.11.18.3.2.1 Additional Requirements**

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

- Curriculum Vitae
- Research Proposal
- GRE – required for degrees from outside North America
- Acceptance by a Chemical Biology research director (Chemical Biology option only)

**22.11.18.3.3 Application Deadlines**

The application deadlines listed here 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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<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
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<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
</tr>
</tbody>
</table>

Please refer to our website ([www.mcgill.ca/pharma](http://www.mcgill.ca/pharma)) for complete deadlines.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

**22.11.18.4 Pharmacology and Therapeutics Faculty**

**Chair**

G. Multhaup

**Graduate Program Director**

D. Bowie
### Emeritus Professors

- R. Capek; M.D., Ph.D.(Prague)
- H.H. Zingg; M.D., Ph.D.(McG.)

### Professors

- G. Almazan; Ph.D.(McG.)
- P.B.S. Clarke; M.A.(Camb.), Ph.D.(Lond.)
- B.F. Hales; Ph.D.(McG.)
- T. Hébert; Ph.D.(Tor.)
- D. Maysinger; Ph.D.(USC)
- P.J. McLeod; M.D.(Manit.), F.R.C.P.(C)
- G. Mullhaup; 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

- D. Bernard; Ph.D.(Johns Hop.)
- D. Bowie; B.Sc., Ph.D.(Lond.)
- A. McKinney; Ph.D.(Ulster)
- S. Nattel; M.D.,C.M.(McG.)
- A.L. Padjen; M.D., Ph.D.(Zagreb)
- E. Zorychta; Ph.D.(McG.)

### Assistant Professors

- L. Münter; Ph.D.(Free Univ., Berlin)
- J. Tanny; Ph.D.(Harv.)
- J.F. Trempe; Ph.D.(Oxf.)

### Associate Members

- M. Alaoui-Jamali; Ph.D.(Paris IV)
- M. Culty; Ph.D.(Fr.)
- G. Di Battista; B.Sc., Ph.D.(Montr.)
- L. Fellows; M.D., C.M.(McG.) Ph.D.(Oxf.)
- P. Fiset; M.D.(Laval), F.R.C.P.S.(C)
- S. Gauthier; M.D.(Montr.)
- T. Geary; Ph.D.(Mich.)
- B. Jean-Claude; Ph.D.(McG.)
- S. Kimmins; Ph.D.(Dal.)
- S. Laporte; Ph.D.(Sher.)
- C. O'Flaherty; Ph.D.(Buenos Aires)
- V. Pappadopoulis; Ph.D.(Univ. Pierre & Marie Curie)
Associate Members

R. Prichard; Ph.D. (UNSW)
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


22.11.18.5 Master of Science (M.Sc.); Pharmacology (Thesis) (45 credits)

Thesis Courses (24 credits)

- PHAR 696 (3) Thesis Preparation
- PHAR 698 (9) Thesis Preparation 2
- PHAR 699 (12) Thesis Preparation 3

Required Courses (9 credits)

- PHAR 601 (6) Comprehensive
- PHAR 712 (3) Statistics for Pharmacologists

Complementary Courses (12 credits)

6 credits, from the following courses:

- PHAR 562 (3) General Pharmacology 1
- PHAR 563 (3) General Pharmacology 2

or, for students who have taken PHAR 562 and PHAR 563 as part of their undergraduate degree, they will register for the following course:

- PHAR 697 (6) Thesis Preparation 1

6 credits, two 700-level PHAR courses.

22.11.18.6 Master of Science (M.Sc.); Pharmacology (Thesis) — Chemical Biology (47 credits)

Thesis Courses (24 credits)

- PHAR 696 (3) Thesis Preparation
- PHAR 698 (9) Thesis Preparation 2
- PHAR 699 (12) Thesis Preparation 3

Required Courses (9 credits)

- PHAR 601 (6) Comprehensive
- PHAR 712 (3) Statistics for Pharmacologists
Complementary Courses (14 credits)

2 credits, two of the following courses:

BIOC 610 (1) Seminars in Chemical Biology 1
BIOC 611 (1) Seminars in Chemical Biology 3
BIOC 689 (1) Seminars in Chemical Biology 2
BIOC 690 (1) Seminars in Chemical Biology 4

6 credits, from the following courses:

PHAR 562 (3) General Pharmacology 1
PHAR 563 (3) General Pharmacology 2

or, for students who have taken PHAR 562 and PHAR 563 as part of their undergraduate degree, they can be replaced with two of the following courses:

BIOC 603 (3) Genomics and Gene Expression
BIOC 604 (3) Macromolecular Structure
CHEM 504 (3) Drug Design and Development 2
CHEM 522 (3) Stereochemistry
CHEM 591 (3) Bioinorganic Chemistry
CHEM 621 (5) Reaction Mechanisms in Organic Chemistry
CHEM 629 (5) Organic Synthesis
CHEM 655 (4) Advanced NMR Spectroscopy
PHAR 504 (3) Drug Discovery and Development 2
PHAR 707 (3) Topics in Pharmacology 6

3 credits, one of the following courses:

PHAR 700 (3) Seminars in Pharmacology
PHAR 702 (3) Topics in Pharmacology 1
PHAR 703 (3) Topics in Pharmacology 2
PHAR 704 (3) Topics in Pharmacology 3
PHAR 705 (3) Topics in Pharmacology 4
PHAR 706 (3) Topics in Pharmacology 5
PHAR 707 (3) Topics in Pharmacology 6

3 credits, one of the following courses:

CHEM 502 (3) Advanced Bio-Organic Chemistry
PHAR 503 (3) Drug Discovery and Development 1

22.11.18.7 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.

Students must successfully complete, or be exempted from, the same courses as for the equivalent M.Sc. in Pharmacology, plus one additional 700-level graduate course (for a total of three).

### 22.11.18.8 Doctor of Philosophy (Ph.D.); Pharmacology — 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 (13 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</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>
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<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>PHAR 601</td>
<td>6</td>
<td>Comprehensive</td>
</tr>
<tr>
<td>PHAR 712</td>
<td>3</td>
<td>Statistics for Pharmacologists</td>
</tr>
</tbody>
</table>

#### Complementary Courses (14 credits)

6 credits, from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 562</td>
<td>3</td>
<td>General Pharmacology 1</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>3</td>
<td>General Pharmacology 2</td>
</tr>
</tbody>
</table>

or, for students who have taken PHAR 562 and PHAR 563 as part of their undergraduate degree, they can replace them with two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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>CHEM 504</td>
<td>3</td>
<td>Drug Design and Development 2</td>
</tr>
<tr>
<td>CHEM 522</td>
<td>3</td>
<td>Stereochemistry</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>PHAR 504</td>
<td>3</td>
<td>Drug Discovery and Development 2</td>
</tr>
<tr>
<td>PHAR 707</td>
<td>3</td>
<td>Topics in Pharmacology 6</td>
</tr>
</tbody>
</table>

two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHAR 700</td>
<td>3</td>
<td>Seminars in Pharmacology</td>
</tr>
<tr>
<td>PHAR 702</td>
<td>3</td>
<td>Topics in Pharmacology 1</td>
</tr>
<tr>
<td>PHAR 703</td>
<td>3</td>
<td>Topics in Pharmacology 2</td>
</tr>
<tr>
<td>PHAR 704</td>
<td>3</td>
<td>Topics in Pharmacology 3</td>
</tr>
<tr>
<td>PHAR 705</td>
<td>3</td>
<td>Topics in Pharmacology 4</td>
</tr>
</tbody>
</table>
one of the following courses:

- **CHEM 502** (3) Advanced Bio-Organic Chemistry
- **PHAR 503** (3) Drug Discovery and Development 1

### 22.11.19 Physiology

#### 22.11.19.1 Location

Department of Physiology  
McIntyre Medical Sciences Building  
3655 Promenade Sir-William-Osler  
Montreal QC H3G 1Y6  
Canada

Telephone: 514-398-4343  
Fax: 514-398-7452  
Website: [www.medicine.mcgill.ca/physio](http://www.medicine.mcgill.ca/physio)

#### 22.11.19.2 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 member who agrees to supervise a student who does not hold a fellowship is obliged to provide financial support.

**section 22.11.19.5: 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 22.11.19.6: Master of Science (M.Sc.); Physiology (Thesis) — Bioinformatics (45 credits)**

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 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 22.11.19.7: 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 22.11.19.8: 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 22.11.19.9: 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
**section 22.11.19.9: Doctor of Philosophy (Ph.D.); Physiology — Bioinformatics**

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 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 22.11.19.10: 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.

---

**22.11.19.3 Physiology Admission Requirements and Application Procedures**

**2211.19.3.1 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 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 transfer 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.

The **GRE** General Test is required for anyone who does not have a degree from a North American university.

Test of English as a Foreign Language (**TOEFL**): minimum score of 600 on paper-based test (or 100 on the Internet-based test 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.

A minimum CGPA of 3.2 or a GPA of 3.4 in the last two years is required for an application to be considered.

**2211.19.3.2 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 **section 5.3: 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.

**2211.19.3.2.1 Additional Requirements**

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

- Curriculum Vitae
- Personal Statement
- GRE and TOEFL – for applicants whose undergraduate degree is not from a North American university
- List of supervisor preferences

**2211.19.3.3 Application Deadlines**

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th></th>
<th>Canadian</th>
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</thead>
<tbody>
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<td>Fall:</td>
<td>June 1</td>
<td>Fall: March 15</td>
<td>Fall: N/A</td>
</tr>
<tr>
<td>Winter:</td>
<td>Sept. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer:</td>
<td>N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

Interested candidates should refer to the Department's website at [www.mcgill.ca/physiology](http://www.mcgill.ca/physiology) for details regarding application procedures, as well as other important information.
## 22.11.19.4 Physiology Faculty

### Chair

John Orlowski

### Graduate Program Director

John White

### Emeritus Professors

- Thomas M.S. Chang; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C)
- Kresmir Kranjec; 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.)
- 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.)
- Kathleen Cullen; B.Sc.(Brown), Ph.D.(Chic.) *(William Dawson Scholar)*
- Leon Glass; B.S.(Brooklyn), Ph.D.(Chic.) *(Rosenfield Professor of Medicine)*
- Phil Gold; M.Sc., Ph.D., M.D., C.M.(McG.), F.R.C.P.(C.) *(Douglas G. Cameron Professor of Medicine)*
- David Goltzman; B.Sc., M.D., C.M.(McG.), F.R.C.P(C) *(Antoine G. Massabki Professor of Medicine)* *(joint appt. with Medicine)*
- John Hanrahan; Ph.D.(Br. Col.)
- Gergely Lukacs; M.D., Ph.D.(Budapest)
- Michael Mackey; B.A., Ph.D.(Wash.) *(Drake Professor of Medicine)*
- 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)*
- Premysl Ponka; M.D., Ph.D.(Prague)
- Alvin Shrier; B.Sc.(C’dia), Ph.D.(Dal.) *(Hosmer Professor of Physiology)*
- John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.)

### 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.)
- Michael Guevara; Ph.D.(McG.)
- Pejmun Haghighi; Ph.D.(McG.)
- Sheldon Magder; M.D.(Tor.) *(joint appt. with Medicine)*
- Julio Martinez-Trujillo; Ph.D.(Tubingen)
- Ursula Stochaj; Ph.D.(Cologne)
- Ann Wechsler; B.A.(Tor.), M.Sc., Ph.D.(McG.)
Associate Professor – Part-Time
Nicole Bernard; B.Sc.(McG.), Ph.D.(Duke)

Assistant Professors
Claire Brown; B.Sc.(St. Mary's), Ph.D.(W. Ont.)
Anmar Khadra; B.Sc.(C'dia), M.Sc., Ph.D.(Wat.)
Russell Jones; Ph.D.(Tor.)
Anastasiya Nyzhmyk; M.Biochem., Ph.D.(Oxf.)
Reza Sharif-Naeini; B.Sc.(Montr.), M.Sc., Ph.D.(McG.)

Associate Members

Anaesthesia: Steven Backman, Fernando Cervero
Biochemistry: Imed Gallouzi
Biomedical Engineering: Robert Kearney, Satya Prakash
Biomedical Ethics: Jennifer Fishman
Electrical and Computer Engineering: Sam Musallam
Kinesiology and Physical Education: Dilson Rassier
Medicine: Volker Blank, Mark Blostein, Andrey Cybulsky, Raymonde Gagnon, Geoffrey Hendy, Louise Larose, Anne-Marie Lauzon, James Martin, Mariana Newkirk, Barry Posner, Shafaaat Rabbani, Mary Stevenson, Elena Torban, Simon Wing, Hans Zingg
Microbiology and Immunology: Jörg Fritz
Nephrology: Serge Lemay, Tomoko Takano
Neurology: David Ragsdale
Ophthalmology: Curtis Baker
Otolaryngology: Bernard Segal
Pediatrics: Charles Rohlicek
Pharmacology: Terence Hebert
Psychiatry: Nicolas Cermakian, Bernardo Dubrovsky
Research in Neuroscience: Charles Bourque, Sal. T. Carbonetto

22.11.19.5 Master of Science (M.Sc.); Physiology (Thesis) (45 credits)

Thesis Courses (27 credits)

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<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>
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Required Courses (12 credits)

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<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>
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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>
<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.

**22.11.19.6 Master of Science (M.Sc.); Physiology (Thesis) — Bioinformatics (45 credits)**

**Thesis Courses (27 credits)**
- PHGY 621 (12) Thesis 1
- PHGY 622 (12) Thesis 2
- PHGY 623 (3) M.Sc. Final Seminar

**Required Courses (12 credits)**
- COMP 616D1 (1.5) Bioinformatics Seminar
- COMP 616D2 (1.5) Bioinformatics Seminar
- PHGY 601 (1) M.Sc. Proposal Seminar
- PHGY 602 (2) Literature Search and Research Proposal
- PHGY 604 (0) Responsible Conduct in Research
- PHGY 607 (3) Laboratory Research 1
- PHGY 608 (3) Laboratory Research 2

**Complementary Courses (6 credits)**
6 credits to be 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

**22.11.19.7 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)**
- PHGY 621 (12) Thesis 1
- PHGY 622 (12) Thesis 2
- PHGY 623 (3) M.Sc. Final Seminar

**Required Courses (12 credits)**
- PHGY 601 (1) M.Sc. Proposal Seminar
- PHGY 602 (2) Literature Search and Research Proposal
- PHGY 604 (0) Responsible Conduct in Research
- PHGY 607 (3) Laboratory Research 1
- PHGY 608 (3) Laboratory Research 2
- PHGY 620 (3) Progress in Research
Complementary Courses (6 credits)

3 credits from the following Chemical Biology seminars:

- BIOC 610 (1) Seminars in Chemical Biology 1
- BIOC 611 (1) Seminars in Chemical Biology 3
- BIOC 689 (1) Seminars in Chemical Biology 2
- BIOC 690 (1) Seminars in Chemical Biology 4

3 credits from the following:

- CHEM 502 (3) Advanced Bio-Organic Chemistry
- CHEM 503 (3) Drug Design and Development 1
- PHAR 503 (3) Drug Discovery and Development 1

22.11.19.8 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)

- PHGY 604 (0) Responsible Conduct in Research
- PHGY 701 (0) Ph.D. Comprehensive Examination
- PHGY 703 (1) Ph.D. Progress Seminar 1
- PHGY 704 (1) Ph.D. Progress Seminar 2
- PHGY 720 (1) Ph.D. Seminar Course 1
- PHGY 721 (1) Ph.D. Seminar Course 2
- PHGY 722 (1) Ph.D. Seminar Course 3
- PHGY 723 (1) Ph.D. Seminar Course 4
- PHGY 724 (1) Ph.D. Seminar Course 5
- PHGY 725 (1) Ph.D. Seminar Course 6

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.

22.11.19.9 Doctor of Philosophy (Ph.D.); Physiology — 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 (11 credits)

- COMP 616D1 (1.5) Bioinformatics Seminar
- COMP 616D2 (1.5) Bioinformatics Seminar
- PHGY 604 (0) Responsible Conduct in Research
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)

- **BIOC 610** (1) Seminars in Chemical Biology 1
- **BIOC 611** (1) Seminars in Chemical Biology 3
- **BIOC 689** (1) Seminars in Chemical Biology 2
- **BIOC 690** (1) Seminars in Chemical Biology 4
- **PHGY 604** (0) Responsible Conduct in Research
- **PHGY 701** (0) Ph.D. Comprehensive Examination
- **PHGY 703** (1) Ph.D. Progress Seminar 1
- **PHGY 704** (1) Ph.D. Progress Seminar 2
- **PHGY 720** (1) Ph.D. Seminar Course 1
- **PHGY 721** (1) Ph.D. Seminar Course 2
- **PHGY 722** (1) Ph.D. Seminar Course 3
- **PHGY 723** (1) Ph.D. Seminar Course 4
- **PHGY 724** (1) Ph.D. Seminar Course 5

Complementary Courses (6 credits)

6 credits 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

**22.11.19.10 Doctor of Philosophy (Ph.D.); Physiology — Chemical Biology**

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)

- **BIOC 610** (1) Seminars in Chemical Biology 1
- **BIOC 611** (1) Seminars in Chemical Biology 3
- **BIOC 689** (1) Seminars in Chemical Biology 2
- **BIOC 690** (1) Seminars in Chemical Biology 4
- **PHGY 604** (0) Responsible Conduct in Research
- **PHGY 701** (0) Ph.D. Comprehensive Examination
- **PHGY 703** (1) Ph.D. Progress Seminar 1
- **PHGY 704** (1) Ph.D. Progress Seminar 2
- **PHGY 720** (1) Ph.D. Seminar Course 1
- **PHGY 721** (1) Ph.D. Seminar Course 2
- **PHGY 722** (1) Ph.D. Seminar Course 3
- **PHGY 723** (1) Ph.D. Seminar Course 4
- **PHGY 724** (1) Ph.D. Seminar Course 5

Complementary Courses (6 credits)

6 credits from the following:
22.11.20 Psychiatry

22.11.20.1 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

22.11.20.2 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.

Ph.D. (Ad Hoc)

The Department of Psychiatry also offers the possibility of directly entering a Ph.D. program on an ad hoc basis.

section 22.11.20.5: 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.

22.11.20.3 Psychiatry Admission Requirements and Application Procedures

22.11.20.3.1 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.
• 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 550 on the written TOEFL test, or 86 on the Internet-based test, with each component score not less than 20, or 6.5 on the IELTS test.

22.11.20.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

22.11.20.3.3 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
The application deadlines listed here 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.

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<td>Winter: Sept. 15</td>
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<td>Summer: Feb. 15</td>
<td>Summer: Jan. 15</td>
<td>Summer: Same as Canadian/International</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.

### 22.11.20.4 Psychiatry Faculty

**Chair**
M. Israel

**Associate Chairs**
D. Charney – *Education*
G. Turecki – *Research*

**Director of Graduate Program**
N. Mechawar

**Emeritus Professors**
M.K. Birmingham; B.A.(Bennington), M.Sc., Ph.D.(McG.)
M. Dongier; Dip.Psych.(McG.), M.D.,C.D.(Provence Aix-Marseille)
G. Pinard; B.A.(Loyola), Dip. Etud. Sup., M.D.,C.M.(Montr.)
T.L. Sourkes; M.Sc.(McG.), Ph.D.(Cornell)

**Professors**
L. Annable; B.Sc.(Liv.), Dipl. in Stat.(Edin.)
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.)
N. Casacalenda; M.D.,C.M.(Sher.)
G. Chouinard; M.Sc., M.D.(Montr.)
M. Cole; B.Sc., M.D.,C.M.(McG.)
S. El Mestikawy; Ph.D.(Paris VI)
N. Frasure-Smith; B.A., Ph.D.(Johns Hop.)
S. Gauthier; B.A., M.D.(Montr.)
B. Giros; M.Sc., Ph.D.(Paris VI)
A. Gratton; Ph.D.(Cdia)
L.T. Hechtman; B.Sc., M.D.,C.M.(McG.)
R. Joober; M.D.(Tunisia), Ph.D.(McG.)
B. Kieffer; Ph.D.(Strasbourg)
L.J. Kirmayer; B.Sc., M.D.,C.M., Dipl.Psych.(McG.) (*James McGill Professor*)
**Professors**

E. Latimer; B.A.Sc.(Wat.), M.S., Ph.D.(Carn. Mell)
M. Lepage; B.A.(C'dia), Ph.D.(UQAM)
M. Leyton; Ph.D.(C'dia) (*William Dawson Scholar*)
A. Malla; M.B.B.S.(Panjab)
M.J. Meaney; B.A.(Loyola), M.A., Ph.D.(C'dia) (*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.)
L.K. Srivastava; B.Sc., M.Sc.(Allahabad), Ph.D.(J. Nehru)
H. Steiger; Ph.D.(McG.)
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)
V. Bohbot; B.A.(McG.), M.A., Ph.D.(Ariz.)
M.J. Brouillette; M.D.,C.M.(Sher.)
A. Brunet; Ph.D.(Montr.)
J. Caron; B.A., M.A.(Moncton), Ph.D.(UQAM)
N. Cermakian; B.Sc.(UQTR), M.Sc., Ph.D.(Montr.)
D. Charmey; M.D.,C.M.(McG.)
F. Cramer-Azima; B.A.(Qu.), M.A.(Cornell), Ph.D.(Montr.)
A. Crocker; Ph.D.(Montr.) (*William Dawson Scholar*)
J.B. Debruille; M.D.(Paris XI), Ph.D.(Paris VI)
S. Dongier-Montagnac; M.D.,C.M.(Provence Aix-Marseille)
B.O. Dubrovsky; M.D.(Buenos Aires)
D. Dunkley; B.Sc.(Tor.), Ph.D.(McG.)
F. Elgar; M.Sc.(Nfld.), Ph.D.(Dal.)
P. Étienne; M.D.(Lieve)
C. Fichten; B.Sc.(McG.), M.Sc.(C'dia), Ph.D.(McG.)
M.-J. Fleury; M.A., Ph.D.(Montr.)
C. Flores; B.Sc., M.A., Ph.D.(C'dia)
D. Frank; Dip.Psychol., M.D.,C.M.(McG.)
G. Galbaud du Fort; M.D., Ph.D.(Paris) (*joint appt. with Epidemiology and Biostatistics*)
**Associate Professors**

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.)

B. Greenfield; 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)

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M. Israël; B.Sc., Gr.Dip.Psych.(McG.), M.A.(Qu.), M.D.,C.M.(McG.)

S. King; M.Ed., Ed.S.(James Madison), Ph.D.(Virg. Poly.)

T. Kolivakis; M.D.(Athens)

A. Labbe; M.Sc.(Montr.), Ph.D.(Wat.)

M. Lalinec-Michaud; B.A., M.D.,C.M.(Paris IV)

K. Loofer; B.Sc., M.D.(Ott.), M.Sc.(McG.)

G. Luheshi; Ph.D.(Newcastle) (William Dawson Scholar)

N. Mecha; B.Sc., M.Sc., Ph.D.(Montr.)

G. Myhr; M.D.,C.M., M.Sc.(McG.)

J. Naiman; B.A., M.D.,C.M.(McG.)

J. Pecknold; B.Sc.(C'dia), M.D.,C.M.(McG.)

D. Pedersen; M.D.(Buenos Aires)

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A. Raz; M.Sc., Ph.D.(Hebrew)

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J. Rochford; M.A.(Qu.), Ph.D.(C'dia)

R. Russell; M.D.(McG.)

N. Schmitz; Dipl., Ph.D.(Univ. Dortmund)

D. Sookman; B.A.(McG.), M.A.(Guelph), Ph.D.(C'dia)

W. Steiner; M.D.,C.M.(McG.)

B. Suranyi-Cadotte; B.Sc., M.Sc.(McG.), M.D.,C.M.(Montpellier)

B. Thombs; B.A.(N'western), M.A.(Ariz.), Ph.D.(NYU)

S. Williams; Ph.D.(Montr.)

G. Wiviott; B.Sc.(Wisc.), Gr.Dip.Psychiat.(McG.), M.D.,C.M.(NYU)

T.P. Wong; B.Sc.(HK), M.Ph.(HK), Ph.D.(McG.)

P. Zelkowitz; Ph.D.(McG.)

M. Zoccolillo; B.Sc.(New Orleans), M.D.(Norfolk)
<table>
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<tr>
<th>Assistant Professors</th>
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<tbody>
<tr>
<td>A. Adamantidis; B.Biol., M.Biol., Ph.D.(Liege)</td>
</tr>
<tr>
<td>M.P. Adams; B.A.(Laval), Gr.Dip.Psychiat.(McG.), M.D.,C.M.(Sher.)</td>
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<tr>
<td>L. Amirali; M.D.(Univ. of Athens)</td>
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<tr>
<td>S. Bachneff; Dip.Psychol.(McG.), M.D.,C.M.</td>
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<td>S.M. Bailes; Ph.D.(C'dia)</td>
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<td>E. Banon; M.D.,C.M.(McG.)</td>
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<td>L. Beauclair; B.Sc., M.D.(Laval)</td>
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<td>P. Beaudry; M.D., M.D.(Sher.), Dipl.Psych.(McG.)</td>
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<td>C. Belanger; B.A.(Ott.), M.A.(Ott.), Ph.D.(Montr.)</td>
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<td>D. Belisle; M.D.(Laval)</td>
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<tr>
<td>C. Beneirakis; Gr.Dip.Psychiat.(McG.), M.D.(Trin. Coll.,Tor.)</td>
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<td>R. Bergeron; M.D.,C.M.(Sher.)</td>
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<td>M. Berlim; M.Med., M.D.(Rio Grande do Sul)</td>
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<td>M. Bernard-Brodeur; M.Sc., Ph.D.(Montr.)</td>
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<td>P. Bleau; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(Sher.)</td>
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<td>D. Bloom; B.Sc.(Regina), M.D.(Qu.)</td>
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<td>M. Boily; B.Sc.(Laval), M.D.(Laval)</td>
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<td>F. Bourque; M.D.(Laval), Ph.D.(King's College)</td>
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<td>E.J. Brahm; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(McG.)</td>
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<td>I. Bradley; M.Sc.(Tor.), Ph.D.(Wat.)</td>
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<td>R. Brown; B.Sc., M.D.,C.M.(McG.)</td>
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<td>T.G. Brown; Ph.D.(C'dia)</td>
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<td>J. Canfield; B.A.(New Br.), M.D.,C.M.(Dal.)</td>
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<td>P. Cervantes; Dip.Psychol.(McG.), M.D.,C.M.(UAEM)</td>
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<td>E. Chachamovich; M.D.(Rio Grande do Sul), Ph.D.(Edin.)</td>
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<td>M. Chakavarty; Ph.D.(McG.)</td>
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<td>D. Claveau; M.D.(Laval)</td>
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<td>P. Cote; B.A.(Laval), M.D.,C.M.(Laval/Ott.)</td>
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<td>L. Creti; Ph.D.(C'dia)</td>
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<td>H. Cvejic; M.D.(NUI)</td>
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<td>L. Dabby; M.D.(Tor.)</td>
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<td>D.P. Dastoor; M.Sc.(Bom.), Ph.D.(C'dia)</td>
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<td>M.E. Davis; Dip.Psychol., M.D.,C.M.(McG.)</td>
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<td>R. Desautels; B.Sc., M.D.,C.M.(McG.)</td>
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<td>J. Desmarais; M.D.,C.M.(McG.)</td>
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<td>P. Desrosiers; M.D.(Sher.)</td>
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<td>M. di Tomasso; M.D.(McG.)</td>
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<td>M. Elie; B.Sc., M.D.,C.M.(McG.)</td>
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<td>M. Elsabbagh; Ph.D.(Qu.)</td>
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<td>C.P. Ernst; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(McG.)</td>
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<td>J. Errunza; M.D.(McG.)</td>
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Assistant Professors

K. Faridi; M.D.(Calg.)
A. Fielding; M.D., C.M.(McG.)
E. Foley; B.Sc.(Tor.)
R.E. Franck; B.A., M.D., C.M.(McG.)
R. Fraser; B.A., M.D.(Dal.)
J. Friedland; M.D.(Calg.)
M. Gauthier; M.D., C.M.(Montr.)
K. Geagea; M.D., C.M.(SJU)
J. Glass; B.A.(Boston), M.D., C.M.(McG.)
K. Goddard; M.D., C.M.(Manit.)
M. Grignon; B.A.(Montr./Ott.), M.A.(Ott.)
B. Groulx; B.A.(Montr.), M.D., C.M.(McG.)
J.M. Guile; Gr.Dip.Psychiat.(Aix-Marseille)
M. Gupta; B.Sc., M.D.(McG.), Ph.D.(Tor.)
M. Habra; B.A.(McG.), M.A., Ph.D.(Br. Col.)
P.O. Harvey; Ph.D.(McG.)
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.)
K. Igaruta; Dip.Ed., M.D., C.M.(McG.)
H. Iskandar; Dip.Psychol.(McG.), M.B., Ch.B.(Alexandria)
S. Iyer; M.A.(Mumbai), Ph.D.(Nebraska–Lincoln)
G.E. Jarvis; B.M.S., M.D.(Alta.)
C. Jolicicouer; M.D., C.M.(Laval)
F. Jollant; M.D.(Paris), M.Sc., Ph.D.(Montpellier)
J. Joly; M.D., C.M.(McG.)
M. Kapuscinska; M.D., C.M.(Medical U. Gdansk)
S. Karama; Ph.D.(Montr.)
R. Keller; M.D., C.M.(Manit.)
M.E. Kiely; B.Ed., B.Sc.(Montr.), M.Sc., Ph.D.(McG.)
T. Kolivakis; M.D.(Univ. of Athens)
R. Kuyumjian; M.D., C.M.(McG.)
P. Lageix; B.Sc., M.D., C.M.(Paris IV)
S. Lamerre; 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)
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<td>S.J. Lloyd; B.A. (McG.)</td>
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<td>G.L. Low; B.A. (Qu.), Dip. Psychol. (McG.), M.D., C.M. (Ott.)</td>
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<td>N.C.P. Low; M.D., M.Sc. (McG.)</td>
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<td>W. Ma; M.D., M.Sc. (Tongji), Ph.D. (McG.)</td>
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<td>C. Magill; M.D. (McG.)</td>
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<td>H. Margoolese; B.Sc., M.Sc., M.D., C.M. (McG.)</td>
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<td>T. Measham; B.Sc., M.D. (McG.)</td>
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<td>M. Messier; B.A. (Montr.), M.B.A. (HEC)</td>
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<tr>
<td>G. Meterissian; Gr. Dip. Psychiat. (McG.), M.D., C.M. (Montr.)</td>
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<td>T.M. Milroy; B.Sc., M.D., C.M. (Md.), Gr. Dip. Psychiat. (McG.)</td>
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<td>M. Miresco; M.D., C.M. (McG.)</td>
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<td>R. Montoro; M.D., C.M. (McG.)</td>
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<td>L. Nadeau; M.D. (Montr.)</td>
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<td>J.P. Near; Ph.D. (W. Ont.)</td>
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<td>J.A. O’Neil; B.A. (C’dia), Dip. Psychol., M.D., C.M. (McG.)</td>
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<td>M.A. Ouimet; D.M.D. (Sher.), Gr. Dip. Psychiat. (McG.)</td>
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<td>J. Palacios-Boix; M.D., C.M. (UAM Azcapotzalco)</td>
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<tr>
<td>M. Piat; Ph.D. (Laval)</td>
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<td>L. Pinard; M.D. (Montr.), F.R.C.P. (C)</td>
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<td>Z. Prelevic; Dip. Psychol. (McG.), M.D., C.M. (Belgrade)</td>
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<tr>
<td>B. Presser; Dip. Psychol. (McG.), M.D., C.M. (Chile)</td>
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<tr>
<td>M. Pruessner; M.Sc.; Ph.D. (Trier)</td>
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<td>M. Rabinovitch; B.Sc., M.D., C.M. (McG.)</td>
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<td>P. Rosa-Neto; M.D., C.M. (Rio Grande do Sul)</td>
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<td>S.B. Rosenbloom; B.A. (C’dia), M.A. (York)</td>
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<td>C. Roy; B.Sc. (McG.), M.D., C.M. (Dal.)</td>
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<td>C. Ruiz-Casares; M.Sc.; Ph.D. (Cornell)</td>
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<td>J. Russell; Ph.D. (McG.)</td>
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<td>T. Said; B.Sc. (McG.), M.D., C.M. (Sher.)</td>
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<td>H. Schwartz; M.D. (McG.)</td>
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<td>M. Segal; B.A. (C’dia), B.Sc. (O.T.), M.D., C.M. (Ott.)</td>
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<td>J. Seguin; B.A., B.Sc., M.D., C.M. (Ott.)</td>
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<tr>
<td>T. Semeniuk; B.Sc., M.Ed., M.D., C.M. (Alta.)</td>
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<tr>
<td>S. Sengupta; Ph.D. (SIU Carbondale)</td>
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<tr>
<td>J. Shah; M.Sc. (Lond.), M.D. (Tor.)</td>
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<tr>
<td>M. Sigman; B.A. (McG.), M.A., Ph.D. (C’dia)</td>
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<tr>
<td>S. Singh; B.Sc. (McM.), M.Med. (Calg.)</td>
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<tr>
<td>M.L. Solomon; Dip. Psychol. (McG.), M.D., C.M. (Qu.)</td>
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<tr>
<td>I. Spector; B.A. (McG.), M.Sc., Ph.D. (Syrac.)</td>
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<tr>
<td>A. St-Hilaire; M.Sc. (McG.), Ph.D. (Ohio)</td>
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<tr>
<td>M. St-Laurent; M.D. (Montr.)</td>
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<tr>
<td>L. Stern; M.D. (McG.)</td>
</tr>
</tbody>
</table>
Assistant Professors

F.K. Storch; M.Sc.(Munich); Ph.D.(Max Planck Inst. Biochem.)
A. Surkis; B.A.(C'dia), M.A., Ph.D.(Montr.)
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K. Tabbane; M.D., Ph.D.(Tunisia)
P. Tetreault; M.D.,C.M.(Sher.)
J.X. Thavundayil; B.Sc., M.B.B.S.(Kerala)
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.)
J. Vogel; M.D.,C.M.(Manit.)
A. Wazana; B.A.(McM.), M.Sc.(Col.), M.Sc.(McG.), M.D.(McM.)
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)
G. Zahirney; M.D.(McG.)
V. Zicherman; B.Sc., M.D.,C.M.(McG.)
D. Zigman; M.D.(McG.)
E. Zikos; M.D.(Montr.)

Associate Members

S. Bond
J.L. Derevensky; Ph.D.
M. Drapeau
A. Evans; Ph.D.
R. Friedman
S. Neron
G. O'Driscoll
M. Szyf

Adjunct Professors

M. Alda; M.D.
J. Baribeau-Braun
P. Blier; M.D., Ph.D.
L. Booij; Ph.D.
W. Brender; Ph.D.
M. Cargo; Ph.D.
S. Choudhury
A. Duffy; M.D.
D. Fikretoglu
R. Fugere; M.D.
J.P. Harris
K. Hyde
A. Gagnon; Ph.D.
Adjunct Professors

V. Kovess-Masfety; M.D., Ph.D.
O. Lapierre
J-C. Lasry; Ph.D.
A. Lesage
F. Lesperance; M.D.
Y.M. Merat
S. Richard-Devantoy
C. Tranulis
A. Zangen

22.11.20.5 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>Title</th>
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<tbody>
<tr>
<td>PSYT 691</td>
<td>12</td>
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<tr>
<td>PSYT 692</td>
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<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.

22.11.21 Surgery, Experimental

22.11.21.1 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
Fax: 514-934-8289
Email: gradstudies.surgery@mcgill.ca
Website: www.mcgill.ca/experimentalsurgery

22.11.21.2 About Experimental Surgery

Experimental Surgery offers graduate programs leading to M.Sc. and Ph.D. degrees. 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 institutes of the different McGill teaching hospitals. The scope of the research and close connections with other centres and departments of McGill provide ample opportunities for collaboration. The research in the Department covers a broad range of topics from tissue repair and regeneration to cancer cell biology, sexual dysfunction, and surgical health outcomes.

A list of research directors and a description of their research topics, as well as application forms may be obtained from our website (www.mcgill.ca/experimentalsurgery).
section 22.11.21.5: Master of Science (M.Sc.); Experimental Surgery (Thesis) (45 credits)

The M.Sc. 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 22.11.21.6: Master of Science (M.Sc.); Experimental Surgery (Thesis) — Surgical Education (45 credits)

This concentration’s focus is on surgical education, and it 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 22.11.21.7: Master of Science (M.Sc.); Experimental Surgery (Thesis) — Surgical Innovation (45 credits)

This concentration’s focus is on surgical innovation, and it 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 22.11.21.8: 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.

22.11.21.3 Experimental Surgery Admission Requirements and Application Procedures

22.11.21.3.1 M.Sc. Programs

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.

Ph.D. Program

Admission is usually from 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. Request for such transfer is to be made in writing by the thesis supervisor during the candidate's first year of M.Sc. studies, not later than March 30 for students enrolled in September, or October 15 for those registered in January. The student must then apply for admission to the Ph.D. program in order to effect the transfer. 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.

22.11.21.3.2 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 section 5.3: Application Procedures for detailed application procedures.

22.11.21.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Research Proposal
- Acceptance by a research supervisor
- Memorandum of Agreement

22.11.21.3.3 Application Deadlines

The application deadlines listed here 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></th>
<th>Canadian</th>
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</thead>
<tbody>
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<td>Fall: June 1</td>
<td>Fall: April 14</td>
<td>Fall: Same as Canadian/International</td>
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<tr>
<td>Winter: Oct. 15</td>
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<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
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</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.

### 22.11.21.4 Surgery, Experimental Faculty

**Director**

A. Philip

**Associate Director**

L. Haglund

**Professors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Antoniou; M.D., C.M., Ph.D. (McG.), F.R.C.S. (C)</td>
<td></td>
</tr>
<tr>
<td>A. Aprikian; M.D. (Sher.), F.R.C.S. (C)</td>
<td></td>
</tr>
<tr>
<td>J. Barkun; M.D., M.Sc. (McG.)</td>
<td></td>
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<tr>
<td>J. Barralet Beng; Ph.D. (Lond.)</td>
<td></td>
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<tr>
<td>J.D. Bobyn; B.Sc., M.Sc. (McG.), Ph.D. (Tor.)</td>
<td></td>
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<tr>
<td>P. Brodt; B.Sc. (Bar-Ilan), M.Sc. (Ott.), Ph.D. (McG.)</td>
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<tr>
<td>N.V. Christou; B.Sc., M.Sc., Ph.D., M.D., C.M. (McG.)</td>
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<tr>
<td>M.M. Elhilali; M.B., B.Ch., D.S., D.U., M.Ch. (Cairo), Ph.D. (McG.)</td>
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<tr>
<td>L. Feldman; M.D., C.M., M.Sc. (McG.)</td>
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<tr>
<td>G.M. Fried; B.Sc., M.D., C.M. (McG.)</td>
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<tr>
<td>F. Glorieux; M.D. (Louvain), M.Sc. (Montr.), Ph.D. (McG.)</td>
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<tr>
<td>P.H. Gordon; M.D. (Sask.)</td>
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<tr>
<td>R. Hamdy; M.Sc., M.D. (Egypt), F.R.C.S. (C)</td>
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<tr>
<td>E. Harvey; B.Sc. (Ont.), M.D., C.M., M.Sc. (McG.)</td>
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<tr>
<td>J.E. Henderson; Ph.D. (McG.)</td>
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<tr>
<td>J.M. Laberge; M.D. (Laval)</td>
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<tr>
<td>S. Meterissian; M.D., C.M., M.Sc. (McG.)</td>
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<tr>
<td>D.S. Mulder; M.D. (Sask.), M.Sc. (McG.)</td>
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<tr>
<td>A. Philip; M.Sc., Ph.D. (McG.)</td>
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<tr>
<td>L. Rosenberg; M.Sc., M.D., Ph.D. (McG.)</td>
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<tr>
<td>P.J. Roughley; B.Sc., Ph.D. (Nott.)</td>
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<tr>
<td>R. St. Arnaud; Ph.D. (Laval)</td>
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<tr>
<td>M. Tanzer; M.D., C.M. (McG.), F.R.C.S. (C)</td>
<td></td>
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<tr>
<td>C.I. Tchervenkov; B.Sc., M.D., C.M. (McG.), F.R.C.S. (C)</td>
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<tr>
<td>R. Turcotte; M.D. (Montr.)</td>
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</tbody>
</table>

**Associate Professors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees and Affiliations</th>
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<tbody>
<tr>
<td>M. Basik; M.D., C.M., M.Sc. (McG.)</td>
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</tr>
<tr>
<td>O. Blaschuk; B.Sc. (Winn.), M.Sc. (Manit.), Ph.D. (Tor.)</td>
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<tr>
<td>S. Chevalier; B.Sc., M.Sc., Ph.D. (Montr.)</td>
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<tr>
<td>P. Chan; M.D., C.M., M.Sc. (McG.), F.R.C.S. (C)</td>
<td></td>
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<tr>
<td>R. Cecere; M.D., C.M., B.Sc. (McG.), F.R.C.S. (C), A.B.S., F.A.C.S.</td>
<td></td>
</tr>
<tr>
<td>M. Chevrette; B.Sc., M.Sc., Ph.D. (Laval)</td>
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<tr>
<td>S. Emil; M.D., C.M. (McG.), F.R.C.S. (C)</td>
<td></td>
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<tr>
<td>L. Ferri; M.D., C.M., M.Sc. (McG.)</td>
<td></td>
</tr>
</tbody>
</table>
### Associate Professors

D. Fleischer; B.Sc., M.D., C.M. (McG.)  
S. Fraser; B.Sc., M.D. (Tor.), M.Sc. (McG.), F.R.C.S. (C)  
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)  
P. Metzakos; B.Sc., M.D. (McG.), F.R.C.S. (C)  
J.S. Mort; B.Sc. (McG.), Ph.D. (McM.)  
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.)  
D. Shum-Tim; M.Sc., M.D., C.M. (McG.)  
T. Steffen; M.D. (Switz.), Ph.D. (McG.)  
T. Taketo-Hosotani; B.Sc., M.Sc., Ph.D. (Kyoto)  
J.I. Tchervenkov; M.D., C.M. (McG.), F.R.C.S. (C)  
D. Zukor; B.Sc., M.D., C.M. (McG.)

### Assistant Professors

S. Bergman; M.Sc., M.D., C.M. (McG.), F.R.C.S. (C)  
A. Dragomir; M.Sc., Ph.D. (Montr.)  
J. Faria; M.D., C.M., 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)  
T.E. Hebert; Ph.D. (Tor.)  
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)  
A. Merguerditchian; M.D., M.Sc. (Montr.), F.R.C.S., F.A.C.S.  
E. Mitmaker; M.D. (TJU), M.Sc. (McG.), F.R.C.S. (C)  
C. O’Flaherty; D.V.M., Ph.D. (Buenos Aires, Argentina)  
M. Petropavlovskaia; M.Sc., Ph.D. (Moscow)  
N. Saran; M.D., B.Sc. (Br. Col.)  
K. Shaw; M.D., C.M., M.Sc. (McG.)

---

### 22.11.21.5 Master of Science (M.Sc.); Experimental Surgery (Thesis) (45 credits)

#### 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 601 (6) Knowledge Management
EXSU 605 (3) Biomedical Research Innovation
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.

Depending on their individual backgrounds, students may be asked by their Research Supervisory Committee to take additional courses.

**22.11.21.6 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 (12 credits)**
- EDPE 637 (3) Issues in Health Professions Education
- EDPH 689 (3) Teaching and Learning in Higher Education
- EXSU 605 (3) Biomedical Research Innovation
- 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.

Depending on their individual backgrounds, students may be asked by their Research Advisory Committee to take additional courses.

**22.11.21.7 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 multi-disciplinary teams in the creation of a 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 606 (3) Statistics for Surgical Research

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Complementary Courses (3 credits)
3 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

### 22.11.21.8 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>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSU 601</td>
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<td>Knowledge Management</td>
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<tr>
<td>EXSU 605</td>
<td>3</td>
<td>Biomedical Research Innovation</td>
</tr>
<tr>
<td>EXSU 606</td>
<td>3</td>
<td>Statistics for Surgical Research</td>
</tr>
<tr>
<td>EXSU 700</td>
<td>0</td>
<td>Comprehensive Examination</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.

23 **Ingram School of Nursing**

23.1 **Dean's Welcome**

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

*Martin Kreiswirth, Ph.D.*  
*Associate Provost (Graduate Education)*  
*Dean, Graduate and Postdoctoral Studies*
23.2 Graduate and Postdoctoral Studies

23.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td></td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>

23.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

23.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

23.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

23.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

23.5 Program Requirements

23.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

**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 form, 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/gpo/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.

### 23.5.2 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 14.8.3: 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.

**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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

**23.5.3 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 and contact the relevant department.

**23.5.4 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#coareasreg.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

Courses taken at other institutions to be part of the requirements of a program of study must be approved by GPS before registration. Double counting is not permitted.
23.6 **Graduate Admissions and Application Procedures**

Please refer to the eCalendar's *University Regulations and Resources > Graduate > section 5: 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.

23.7 **Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's *University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships* for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

23.8 **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.

### 23.8.1 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.).

### 23.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under Undergraduate Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

ii. 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the *Handbook on Student Rights and Responsibilities* 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*

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### 23.8.3 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*

### 23.8.4 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 the *eCalendar* under *University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the *eCalendar* under *University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at [www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli](http://www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli) under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

### 23.8.5 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.

23.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

23.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

23.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.
23.11.1 Nursing

23.11.1.1 Location

Ingram School of Nursing  
Wilson Hall  
3506 University Street  
Montreal QC H3A 2A7  
Canada

Telephone: 514-398-4144  
Fax: 514-398-8455  
Website: www.mcgill.ca/nursing

23.11.1.2 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 the discipline.

Over the years, the faculty of the School at McGill has worked to formulate a philosophy about the responsibilities and practice of nursing. This philosophy, known as the McGill Model of Nursing, directs the curricula at the School and emphasizes health, the family, learning and development, collaboration with clients, and working with the resources of individuals, families, and communities. Its intent is to actively promote health and well-being in people of all ages and across all situations. The McGill Model of Nursing is also central to the McGill University Health Centre's Department of Nursing.

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, education, 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 is located in Wilson Hall, which houses classrooms, computer facilities, faculty offices, and lounges. A recently renovated Nursing Learning Laboratory, located at University Hall Residence, has seven clinical beds, an ICU bed, two examination tables, and AV capacity for distance education. 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 Nursing programs, please consult the Health Sciences Calendar available at www.mcgill.ca/study.

M.Sc.A. Program and Concentrations

Historically, students entering the master's program selected "areas of study." The clinical stream prepared students for clinical nurse specialist or nurse practitioner roles in selected areas. The adjunct area was available for students who wished to plan an individual program of study in such areas as nursing administration, education, or global health. These have since been replaced by 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 Certificate and/or Diploma programs. These programs offer our students the necessary biomedical skills and knowledge in either Neonatology or Primary Care to prepare them for the last 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 is designed to prepare nurses to contribute to the development of knowledge in the discipline through research and academia. Faculty members are active researchers in many areas, including telehealth, pediatric ethics, family health, psychosocial oncology, palliative care, pain, and chronic illness.

section 23.11.1.5: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Clinical Nurse Specialist (49 credits)

This concentration is open to bachelor-prepared nurse students for full-time (two-year program of study) or part-time studies (three to five 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 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. 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 23.11.1.6: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Direct Entry Nursing (55 credits)

The Direct Entry Nursing concentration remains the only one of its kind in Canada. Students will complete 96 credits over three years, which include 41 credits in the Qualifying Year. This 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
**section 23.11.1.6: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Direct Entry Nursing (55 credits)**

This concentration is open to bachelor-prepared nurse students. It prepares students for the multifaceted role of nurse practitioner in intermediate, acute, and critical care in neonatology. The nurse practitioner will acquire the necessary knowledge and understanding required to practice in a collaborative way in providing services designed to deal with the healthcare needs and problems of neonates and their families in a variety of settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma, Neonatal Nurse Practitioner program, which is the last step before the relevant licensing exam of the OIIQ (Ordre des infirmières et infirmiers du Québec).

**section 23.11.1.7: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Global Health Clinical Nurse Specialist (51 credits)**

This Global Health Clinical Nurse Specialist concentration is open to 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 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 23.11.1.8: 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 limited-resource environments, based on the belief that we have much to learn from one another. Students spend one semester taking clinical- and project-based courses in their final year in a global health placement site. This concentration is managed by the Global Health Committee of the Ingram School of Nursing.

**section 23.11.1.9: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Neonatal Nurse Practitioner (45 credits)**

This concentration is open to bachelor-prepared nurse students. It prepares students for the multifaceted role of nurse practitioner in intermediate, acute, and critical care in neonatology. The nurse practitioner will acquire the necessary knowledge and understanding required to practice in a collaborative way in providing services designed to deal with the healthcare needs and problems of neonates and their families in a variety of settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma, Neonatal Nurse Practitioner program, which is the last step before the relevant licensing exam of the OIIQ (Ordre des infirmières et infirmiers du Québec).

**section 23.11.1.10: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Nursing Education (49 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 23.11.1.11: 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.

**section 23.11.1.12: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Primary Care Nurse Practitioner (45 credits)**

This concentration is open to bachelor-prepared nurse students. It was developed 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. This concentration focuses on a wide range of acute and chronic health concerns across the life span. Students who successfully complete this program are eligible to apply to the Graduate Diploma, Primary Care Nurse Practitioner program, which is the last step before the relevant licensing exam of the OIIQ (Ordre des infirmières et infirmiers du Québec).

**section 23.11.1.13: Graduate Certificate; Theory in Neonatology (15 credits)**

This graduate certificate prepares students with completed graduate studies, comparable to the McGill Master of Science (Applied) Nursing program, and experience in neonatology to continue their studies in the Graduate Diploma in Neonatal Nurse Practitioner. The program of study focuses on the acquisition of advanced-level knowledge from the biomedical sciences in the context of the nurse practitioner role. The Graduate Certificate Theory in Neonatology and the Graduate Diploma in Neonatal Nurse Practitioner cannot be taken concurrently.

**section 23.11.1.14: Graduate Certificate; Theory in Primary Care (15 credits)**

This graduate certificate prepares students with completed graduate studies, comparable to the McGill Master of Science (Applied) Nursing program, and experience in primary care to continue their studies in the Graduate Diploma Primary Care Nurse Practitioner. The program of study focuses on the acquisition of advanced-level knowledge from the biomedical sciences in the context of the nurse practitioner role. The Graduate Certificate Theory in Primary Care and the Graduate Diploma in Primary Care Nurse Practitioner cannot be taken concurrently.

**section 23.11.1.15: Graduate Diploma in Neonatal Nurse Practitioner (30 credits)**

This diploma is the final step in the student's preparation to assume the new role as nurse practitioner. Students with completed graduate studies in the discipline and experience in neonatology now combine the acquisition of advanced-level knowledge from the biomedical sciences to the application of this knowledge in context. Upon successful completion of the diploma program, candidates are eligible to write the nurse practitioner licensing exam.

**section 23.11.1.16: Graduate Diploma in Primary Care Nurse Practitioner (30 credits)**

This diploma is the final step in the student's preparation to assume the new role as nurse practitioner. Students with completed graduate studies in the discipline and experience in primary care now combine the acquisition of advanced-level knowledge from the biomedical sciences to the application of this knowledge in context. Upon successful completion of the diploma program, candidates are eligible to write the nurse practitioner licensing exam.
section 23.11.1.17: Doctor of Philosophy (Ph.D.); Nursing

The Ingram School of Nursing of McGill University and the Faculté des sciences infirmières of the Université de Montréal offer a joint doctorate program leading to a Ph.D. in Nursing. This program is offered in English at McGill. The program is designed to train 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.

section 23.11.1.18: Doctor of Philosophy (Ph.D.); Nursing — Psychosocial Oncology

A cross-disciplinary option in Psychosocial Oncology (PSOO) is offered in collaboration with the Departments of Oncology and Psychology and the Schools of Nursing and Social Work. 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.

23.11.1.3 Nursing Admission Requirements and Application Procedures

23.11.1.3.1 Admission Requirements

Proficiency in English

The language of instruction at McGill University is English. Students must write term papers, examinations, and theses in English or in French. 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 exam requirements: a minimum score of 600 (paper-based) or 100 with each component score no less than 20 (Internet-based). IELTS exam requirements: a minimum overall score of 7.5 is required.

For information about the Language Policy at McGill University, please refer to section 2.11: Language Policy in the Graduate and Postdoctoral Studies University Regulations and Resources available at www.mcgill.ca/study.

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 the 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 advisor concerning course load.

All nurse applicants are expected to hold current registration in the province or country from which they come. Nurses who are not licensed in Quebec must be registered (immatriculé(e)) with the Ordre des infirmières et infirmiers du Québec upon the start of their graduate studies. Nurse applicants to the Nurse Practitioner areas of study must hold current and full licensure with the OIIQ.

International nurse applicants are required to have had experience as nurses in their country of origin and in North America.

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 may apply for 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 at www.mcgill.ca/nursing/programs/msca-direct-entry.

Nurse Applicants (Nurse Bachelor's Entry – NBE) to the Master's Program

Applicants for 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 is a minimum of 66 university credits including 12 credits in the biological sciences. Applicants must also have completed an Introductory Statistics course (3 credits) prior to entry. 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 two years 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 OIQ before submitting their application to the Neonatology or Primary Care Nurse Practitioner program. Please note that in order to obtain a nursing licence in Quebec, one must be proficient in the French language. For more information regarding the OIQ licensure eligibility criteria, please contact the OIQ at 514-935-2505.

The Primary Care Nurse Practitioner program delivers some courses in French, making proficiency in French a requirement for this program 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. Applicants must have a CGPA of 3.3 on a scale of 4.0 or a B+ standing. Highly qualified nurse bachelor's entry students enrolled in the M.Sc.(A.) in the nursing program may be accepted into the Ph.D. program provided they meet its standards.

The School considers admissions to the doctoral program for the Fall term only. The nursing courses in the doctoral program are offered every two years and incoming students may begin with Schedule A or Schedule B (see section 23.11.1.17: Doctor of Philosophy (Ph.D.); Nursing for details) depending upon their admission year.

23.11.1.32 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.

Orientation for new students will be held in class during the first week of lectures. Students should contact their academic adviser for approval of complementary courses before the add/drop deadline.

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.

OIQ Registration or Proof of Licensure

Please visit www.mcgill.ca/nursing/students/clinical for further details.

Vaccination/Immunization and Mask-Fitting Requirements

New students in the Ingram School of Nursing must refer to the Vaccination/Immunization Requirements for Health Sciences Programs outlined in the General University Information and Regulations of the Health Sciences Calendar (available at www.mcgill.ca/study under Faculties & Schools). A copy of the immunization form outlining requirements can be found at www.mcgill.ca/studenthealth/immunize/forms. Annual flu vaccination is strongly recommended to all health science students. Entry into the McGill University Teaching Hospital Network is dependent on having met the immunization requirements. All students must have immunizations completed (or in process for Hepatitis B) and mask fitting done by the start of clinical placement in September.

CPR and First Aid Requirements

Valid First Aid and CPR Certification Health Care Provider (HCP) and Automated External Defibrillation (AED) is required no later than September 15th for all graduate nursing students except for those in the Ph.D. program. Students are responsible for maintaining this certification up-to-date throughout their program of study.

Achievement Builders – Student Services

Any student who is experiencing difficulty in meeting course requirements must take advantage of the Achievement Builders program offered through Student Services. Information is available at: www.mcgill.ca/firstyear/studentlife/workshops1.

Regulations Concerning Clinical Placement Courses

- Students must be registered with the OIQ 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 Handbook on Student Rights and Responsibilities) provide guidelines. Professional behaviour is expected in relation to classmates, teachers, patients, 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.
• 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.

Requirements for Licensure

Following completion of a first-level program in nursing, graduates must obtain licensure from the professional organization in the province or state in which they complete their studies. Visit www.mcgill.ca/nursing/students/graduation for further information.

23.11.1.3.3 Application Procedures

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

See section 5.3: 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 our Nursing website at www.mcgill.ca/nursing/programs/applying-graduate-programs, then search for your program of study.

23.11.1.3.3.1 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.

23.11.1.3.4 Application Deadlines

The application deadlines listed here 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.

<table>
<thead>
<tr>
<th>Term of Entry</th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<tbody>
<tr>
<td>Fall:</td>
<td>Feb. 15</td>
<td>Jan. 15</td>
<td>Feb. 15 (Canadian)/Jan. 15 (International)</td>
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<tr>
<td></td>
<td>• Qualifying for the M.Sc.A. Nursing</td>
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<td>• M.Sc.A. Nursing – all concentrations (Special Students, visit website: <a href="http://www.mcgill.ca/nursing/programs">www.mcgill.ca/nursing/programs</a>)</td>
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<td></td>
<td>• Ph.D. Nursing</td>
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<td>Winter:</td>
<td>Sept. 30</td>
<td>N/A</td>
<td>Sept. 30</td>
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<td>• M.Sc.A. Nurse Bachelor Entry, part-time studies in all concentrations (except for Global Health and Nurse Practitioner) must contact the Graduate Admissions Coordinator prior to applying</td>
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<td>• Graduate Certificate; Theory in Neonatology</td>
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<td>• Graduate Certificate; Theory in Nurse Practitioner Primary Care</td>
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<td>• Graduate Diploma; Neonatology Nurse Practitioner</td>
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<td>Summer:</td>
<td>Dec. 15</td>
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<td>• Graduate Diploma; Nurse Practitioner Primary Care</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.

23.11.1.4 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, Faculty of Medicine, and Director, Ingram School of Nursing
Hélène Ezer

Assistant Director, Ingram School of Nursing, and Graduate Programs Director
Linda McHarg
### Assistant Director, Ingram School of Nursing, and Ph.D. Program Director

Margaret Purden

### Director, Nursing Collaborative

TBA

### 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.)
- Elizabeth C. Logan; N., B.Sc.(Acad.), M.Sc.(Yale)
- 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.), M.P.H., Ph.D.(McG.)
- Laurie N. Gottlieb; N., B.N., M.Sc.A., Ph.D.(McG.) (*Shaw Professor of Nursing* )

### Associate Professors

- Hélène Ezer; N., B.Sc.(N.), M.Sc.A.(McG.), Ph.D.(Montr.)
- 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.)
- Carmen G. Loiselle; N., B.Sc.(N.)(Montr.), M.S., Ph.D.(Wisc.-Madison)
- Christine Maheu; N., B.Sc.(N.), M.Sc.(Montr.), Ph.D.(INSERM), Post Doc.(Br. Col.)
- 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.)
- Catherine P. Gros; N., B.Sc.(Mass.), M.Sc.A.(McG.) (*part-time*)
- Sylvie Lambert; N., B.Sc.(N.), Ph.D.(McG.), Post Doc.(Newcastle, Australia)
- Linda McHarg; N., B.N., M.Ed.(McG.), Ph.D.(Montr.)
- Argerie Tsimicalis; N., B.Sc.(N.)(Windsor), M.Sc.(Qu.), Ph.D.(Tor.), Post Doc.(Col.)

### Faculty Lecturers

- 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.)
- Elaine Doucette; N., B.Sc.(C'dia), B.Sc.(N.), M.Sc.(N.)(Ott.)
- Françoise Filion; N., B.Sc.(N.), M.Sc.(N.) (Montr.)
- Shari Patricia Gagné; N., B.Sc.(N.)(Ott.), M.Sc.A.(McG.)
- Diana Gausden; N., SCPHN(Southbank Univ., Lond.) (*part-time*)
- Sandie Larouche; N., B.Sc.(N.)(Laval), M.Sc.A.(McG.)
- Norma Ponzoni; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(c)(Montr.)
## Faculty Lecturers

Rosalia Sanzone; N., B.Sc. (N.), M.Sc.A. (McG.)

Jodi Tuck; N., B.Sc. (McM.), M.Sc.A. (McG.)

## Contracted Faculty (part-time)

Rosetta Antonacci; N., M.Sc. (Admin.) (Laval)

Melissa Asselin; N., B.N.(I.) (McG.)

Vanessa Jane Barry-Shaw; N., B.Sc. (C'dia), M.Sc.A. (McG.)

Alain Biron; N., B.Sc. (McG.), M.Sc. (N.) (Montr.), Ph.D. (McG.)

Patricia Bondu; N., B.Sc. (N.) (Br. Col.)

Theresa Broda; N., B.Sc. (N.) (McG.), B.Sc. (N.) (Ott.)


Susan Buddo; N., B.Sc. (N.) (Br. Col.), M.N. (Athab.)

Sophie Charland; N., IPS-PL, B.Sc. (N.), M.Sc. (Montr.)

Lynne Chlala; B.A., L.L.B. (McG.)

Gomane Nerline Colimon; N., B.Sc. (N.) (McG.)

Hermes Cornejo; N., B.Sc. (N.) (Chile), M.Sc. (N.) (Montr.)

Hedda Coronado; N., B.Sc. (N.) (Philippines)

Crystal Côté; N., B.N.(I.) (McG.)

Joann Creager; N., B.A. (Welles.), M.Sc.A. (McG.), Ph.D. (Texas-Austin)

Kayla Cytryn; N., B.Sc., B.Sc. (N.), M.Sc.A., Ph.D. (McG.), Post Doc. (Harv.)

Maryse Dagenais; N., B.Sc. (N.) (Montr.), M.Sc.A. (McG.)

Kimani Daniel; N., B.Sc., M.Sc.A. (McG.)

Kelley Dionne; N., B.Sc. (N.) (McG.)

Lise Doiron; N., B.Sc. (N.) (McG.), M.Sc. (Laval)

Susan Drouin; N., B.N. (New Br.), M.Sc.A. (McG.)

Margaret Eades-Langston; N., B.N., M.Sc.A. (McG.)

Christine Echegaray-Benites; N., B.Sc. (N.), M.Sc.A. (McG.)

Moira Edwards; N., B.A. (C'dia), M.Ed. (McG.)

Megan Fournier; N., B.Sc. (N.) (Ott.)

Lisa Frick; N., B.Sc. (N.) (Ott.)

Melanie Gauthier; N., B.Sc. (N.) (McG.), M.N. (Syd.)

Pier-Emmanuelle Girard; N., B.N.(I.) (McG.)

Cynthia Graham-Certosini; N., B.Sc. (N.), M.Sc.A. (McG.)

Marie-Josée Guy; N., B.Sc. (N.), M.Sc.A. (McG.)

Brigitte Ireson-Valois; N., B.Sc. (N.) (McG.), M.I.P.H. (Syd.)

Tiffany Johnston; N., B.Sc. (N.) (McG.)

Charlie Myriam Julien; N., B.N., M.N. (Montr.)

Oxana Kapoustina; N., B.Sc., M.Sc., M.Sc.A. (McG.)

Yasmin Khan; N., B.Sc., B.Sc. (N.) (McG.)

Julia Kinnon-Shaw; N., B.Sc. (N.), M.Sc.A. (McG.)

Manon Lacroix; N., B.Sc. (N.) (UQAT), M.Sc. (N.) (Ott.), DESS (Laur.)

Vanessa Lamb-Knox; N., B.Sc. (N.) (McG.)
**Contracted Faculty (part-time)**

Anne-Marie Lanctôt; N., B.A., M.Sc.A.(McG.)

Roxanne Lawson; N., B.N.(I.)(McG.)

Catherine Lloyd; N., B.Sc.(N.)(Ott.)

Rachel Lomas; N., B.Sc.(Qu.), M.Sc.A.(McG.)

Ryan Lomenda; N., B.Sc.(Alta.), M.Sc.A.(McG.)

Mary Ellen Macdonald; B.A.(McG.), M.A.(Dal.), Ph.D., Post Doc.(McG.)

Erin Macksey; N., B.Sc.(N.)(McG.)

Caroline Marchionni; N., B.Sc.(McG.), M.Sc.(John M.), M.Sc.A.(McG.)

Amanda McElligott; N., B.Sc.(N.)(Br. Col.)


Alison Mockler; N., B.Sc., M.Sc.A.(McG.)

Sharon Mooney; N., B.A.(C'dia), B.Sc.(N.)(Br. Col.), M.A.(C'dia)

Linda Morneault; N., B.Sc.(N.)(McG.), M.Sc.(SUNY)

Frederick Peter Nestel; B.Sc.(McG.), M.Sc.(Qu.), Ph.D.(McG.)

Tessa Nichols; N., B.Sc.(N.)(Ott.)

Trisha Andrea Nonog; N., B.N.(I.)(McG.)

Mary Owen; N., B.A.(C'dia), B.Sc.(N.)(Br. Col.)

Josette Perreault; N., B.N.(McG.)

Silvia Pistagnesi; N., B.Sc.(N.), M.Sc.A.(McG.)

Joanne Power; N., B.Sc.(N.)(PEI), M.Sc.(N.)(Ott.)

Nicole Rheaume; N., B.Sc.(N.)(McG.)

Ramona Rodrigues; N., B.Sc., M.Sc.A.(McG.)

Marcia Ryan; N., B.Sc.(N.)(Ott.)

Patricia Sabbag; N., B.Sc.(N.), M.Sc.A.(McG.)

Irene Sarasua; N., B.A.(Tor.), M.Sc.A.(McG.)


Elisabeth Solyom; N., B.Sc., B.Sc.(N.)(McG.)

Isabelle St-Cyr; N., B.Sc., DESS(Laval), M.Sc.A.(McG.)

Anna Tazian; N., B.Sc.(N.), M.P.H.(Beirut)

Brett Thombs; B.A.(Western), M.A.(Ariz.), M.A., Ph.D.(Fordham), Post Doc.(Johns Hop.)

Philip Van; N., B.Sc.(N.)(McG.)

Elodie Viau; N., B.Sc.(N.)(Sher.)

Cania Vincelli; N., B.N., M.Sc.(N.)(Montr.)


Nadia Zouari; N., B.N.(I.)(McG.)

**McGill University Health Centre (MUHC)**

Note: MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.

Lachine Hospital & Camille-Lefebvre Pavilion

Montreal Chest Institute

Montreal Children’s Hospital
McGill University Health Centre (MUHC)

<table>
<thead>
<tr>
<th>Note: MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.</th>
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</thead>
<tbody>
<tr>
<td>Montreal General Hospital</td>
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<tr>
<td>Montreal Neurological Institute</td>
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<tr>
<td>Royal Victoria Hospital</td>
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</tbody>
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McGill University Teaching Hospitals and Affiliated Centres (MUTHC)

<table>
<thead>
<tr>
<th>Note: MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.</th>
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</thead>
<tbody>
<tr>
<td>Douglas Mental Health University Institute</td>
</tr>
<tr>
<td>Jewish General Hospital</td>
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<tr>
<td>Shriner’s Hospital for Children</td>
</tr>
<tr>
<td>St. Mary’s Hospital Centre</td>
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</tbody>
</table>

Other Teaching Centres

| Batshaw Youth and Family Centre |
| Cambridge Residence |
| Concordia University Health Clinic |
| CSSS Bordeaux-Cartierville-St. Laurent |
| CSSS Cavendish (CLSC NDG-MTL Ouest, CLSC René Cassin, Henri-Braden Day Center, Julius Richardson, GMF Queen Elizabeth) |
| CSSS de la Montagne (CLSC Côte des Neiges, CLSC Metro, CLSC Parc Extension) |
| CSSS de l'Ouest de l'île (CLSC Pierrefonds, CLSC Lac St. Louis, Lakeshore General Hospital) |
| CSSS Dorval-Lachine-Lasalle (CLSC Lasalle, CLSC Dorval-Lachine) |
| CSSS Jardins-Roussillion (CLSC Kateri, CLSC Châteauguay) |
| 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) |
| Jewish Eldercare Day Centre |
| Jewish Rehabilitation Hospital |
| Kateri Memorial Hospital |
| Maimonides Hospital Geriatric Centre |
| Manoir Montefiore |
| Manoir Westmount |
| Montreal Association for the Blind – Mackay Rehabilitation Centre |
| Mount Sinai Hospital |
| Salvation Army Montclair Residence |
| Ste. Anne's Veteran Hospital |
| Tulattavik Health Centre Kuujjuaq |
| Ukrainian Villa |
| Waldorf Residence |
| Welcome Hall Mission |
| West Island Palliative Care Residence |
Other Teaching Centres

West Montreal Readaptation Centre

International Sites

A range of international placement sites is collated by the Clinical Placement Coordinators.

Directors of Nursing Research in Teaching Hospitals

MUHC – TBA

Jewish General Hospital – Margaret Purden

23.11.1.4.1 Clinical and Affiliated Faculty Members

Professor

Susan E. French

Associate Professors

Jane Chambers-Evans, Susan Drouin, Lynne McVey, Frederick Peter Nestel, Carolyn Pepler, Edith Zorychta

Assistant Professors

Alain Biron, Madeleine Boulay-Bolduc, Mark Daly, Margaret Eades, Linda Edgar, Lucia Fabijan, Valerie Frunchak, Mary Grossman, Andrea Laizner, Ariella Lang, Virginia Lee, Diane E. Lowden, Ann Lynch, Anita Mehta, Michelle Nadon, Patricia O'Connor, Hélène Racine, Janet Rennick, Marie-Claire Richer, Christian Rochefort, Andranne Saucier, Charles Sounan, Linda Ward

Faculty Lecturers


Adjunct Professor

Bruce Gottlieb

Associate Members


Affiliate Members

Stephanie Allain, Joyce Marie Arsenault, John Atkins, Theresa Broda, Antoinette Ehrler, Suzie Gagnon, Micheline Gaudet, Celestine Kamdon, Donna Kindrat, Linda Mai Lee, Catherine Lloyd, Farah Michel, Trisha Andrea Nonog, Chantal Souligny, Vida Stibernik, Marika Swidzinski, Diana Taddeo, Barbara Ann Taughfer, Teresa Testa

23.11.1.5 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Clinical Nurse Specialist (49 credits)

This concentration is a two-year, 49-credit program. Part-time studies over three to five years are also an option for students. 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 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 (46 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 515</td>
<td>Applied Statistics for Nursing</td>
</tr>
</tbody>
</table>
Complementary Courses (3 credits)

Any 500-level course or higher in consultation with the Adviser for this concentration.

23.11.1.6 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Direct Entry Nursing (55 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, 96-credit 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Applied Statistics for Nursing</td>
</tr>
<tr>
<td>NUR2 611D1</td>
<td>3</td>
<td>Seminar in Nursing</td>
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<td>Seminar in Nursing</td>
</tr>
<tr>
<td>NUR2 612</td>
<td>3</td>
<td>Research Methods in Nursing</td>
</tr>
<tr>
<td>NUR2 613D1</td>
<td>3</td>
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</tr>
<tr>
<td>NUR2 613D2</td>
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<td>Clinical Practicum</td>
</tr>
<tr>
<td>NUR2 616</td>
<td>4</td>
<td>Advanced Clinical Skills</td>
</tr>
<tr>
<td>NUR2 623</td>
<td>3</td>
<td>Clinical Assessment and Therapeutics</td>
</tr>
<tr>
<td>NUR2 625</td>
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</tr>
<tr>
<td>NUR2 626</td>
<td>3</td>
<td>Professional Issues in Nursing</td>
</tr>
<tr>
<td>NUR2 628</td>
<td>4</td>
<td>Advanced Assessment</td>
</tr>
<tr>
<td>NUR2 630</td>
<td>3</td>
<td>Clinical Project 1</td>
</tr>
<tr>
<td>NUR2 631</td>
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</tr>
<tr>
<td>NUR2 632</td>
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<tr>
<td>NUR2 640</td>
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</tr>
<tr>
<td>NUR2 641</td>
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</tr>
<tr>
<td>NUR2 642</td>
<td>3</td>
<td>Ethics in Advanced Practice</td>
</tr>
</tbody>
</table>

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.

23.11.1.7 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Global Health Clinical Nurse Specialist (51 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 Clinical Nurse Specialist 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 Clinical Nurse Specialist’ is the concentration label for bachelor-prepared nurse students who complete Global Health studies.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Applied Statistics for Nursing</td>
</tr>
<tr>
<td>NUR 516</td>
<td>3</td>
<td>Perspectives on Global Health</td>
</tr>
<tr>
<td>NUR 611D1</td>
<td>3</td>
<td>Seminar in Nursing</td>
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<tr>
<td>NUR 611D2</td>
<td>3</td>
<td>Seminar in Nursing</td>
</tr>
<tr>
<td>NUR 612</td>
<td>3</td>
<td>Research Methods in Nursing 1</td>
</tr>
<tr>
<td>NUR 614D1</td>
<td>3</td>
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<td>NUR 625</td>
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<td>Clinical Reasoning 2</td>
</tr>
<tr>
<td>NUR 642</td>
<td>3</td>
<td>Ethics in Advanced Practice</td>
</tr>
</tbody>
</table>

23.11.1.8 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>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Applied Statistics for Nursing</td>
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<tr>
<td>NUR 516</td>
<td>3</td>
<td>Perspectives on Global Health</td>
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<tr>
<td>NUR 611D1</td>
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</tr>
<tr>
<td>NUR 611D2</td>
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<td>Seminar in Nursing</td>
</tr>
<tr>
<td>NUR 612</td>
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<td>Research Methods in Nursing 1</td>
</tr>
<tr>
<td>NUR 613D1</td>
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<td>NUR 623</td>
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<td>NUR 625</td>
<td>6</td>
<td>Clinical Laboratory in Nursing 3</td>
</tr>
</tbody>
</table>
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.

23.11.1.9 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Neonatal 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

- NUR2 515 (3) Applied Statistics for Nursing
- NUR2 611D1 (3) Seminar in Nursing
- NUR2 611D2 (3) Seminar in Nursing
- NUR2 612 (3) Research Methods in Nursing 1
- NUR2 614D1 (3) Clinical Laboratory - Nursing 1
- NUR2 614D2 (3) Clinical Laboratory - Nursing 1
- NUR2 626 (3) Professional Issues in Nursing
- NUR2 642 (3) Ethics in Advanced Practice
- NUR2 644 (3) Special Topics 1
- NUR2 660 (4) Reasoning in Neonatology 1
- NUR2 662 (3) Reasoning in Neonatology 3
- NUR2 663 (3) Neonatology Clinical Project
- NUR2 664 (4) Neonatal Health Assessment
- NUR2 665 (4) Newborn Internship

23.11.1.10 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) — Nursing Education (49 credits)

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 (36 credits)

- NUR2 515 (3) Applied Statistics for Nursing
- NUR2 611D1 (3) Seminar in Nursing
- NUR2 611D2 (3) Seminar in Nursing
- NUR2 612 (3) Research Methods in Nursing 1
- NUR2 614D1 (3) Clinical Laboratory - Nursing 1
NUR2 614D2 (3) Clinical Laboratory - Nursing 1
NUR2 622 (4) Nursing Education Internship
NUR2 626 (3) Professional Issues in Nursing
NUR2 630 (3) Clinical Project 1
NUR2 631 (3) Clinical Project 2
NUR2 632 (2) Clinical Project 3
NUR2 642 (3) Ethics in Advanced Practice

**Complementary Courses (13 credits)**
(0-4 Credits)
NUR2 624 (4) Clinical Laboratory in Nursing 2

(9-13 Credits)
Any 500-level course or higher in consultation with the Adviser for this concentration.

**23.11.1.11 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 (32 credits)**
NUR2 515 (3) Applied Statistics for Nursing
NUR2 611D1 (3) Seminar in Nursing
NUR2 611D2 (3) Seminar in Nursing
NUR2 612 (3) Research Methods in Nursing 1
NUR2 614D1 (3) Clinical Laboratory - Nursing 1
NUR2 614D2 (3) Clinical Laboratory - Nursing 1
NUR2 626 (3) Professional Issues in Nursing
NUR2 630 (3) Clinical Project 1
NUR2 631 (3) Clinical Project 2
NUR2 632 (2) Clinical Project 3
NUR2 642 (3) Ethics in Advanced Practice

**Complementary Courses (17 credits)**
(0-11 Credits)
NUR2 624 (4) Clinical Laboratory in Nursing 2
NUR2 629 (4) Nursing Administration Stage
NUR2 720 (3) Nursing Workforce Determinants

(6-17 Credits)
Any 500-level course or higher in consultation with the Adviser for this concentration.

**23.11.1.12 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 Name</th>
</tr>
</thead>
<tbody>
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<td>NUR2 611D1</td>
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<td>Seminar in Nursing</td>
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<td>Seminar in Nursing</td>
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<td>NUR2 612</td>
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<td>Research Methods in Nursing</td>
</tr>
<tr>
<td>NUR2 614D1</td>
<td>3</td>
<td>Clinical Laboratory - Nursing 1</td>
</tr>
<tr>
<td>NUR2 614D2</td>
<td>3</td>
<td>Clinical Laboratory - Nursing 1</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>
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<td>NUR2 670</td>
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<td>Reasoning in Primary Care 1</td>
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<tr>
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**23.11.13 Graduate Certificate; Theory in Neonatology (15 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 644</td>
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<td>Special Topics 1</td>
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<tr>
<td>NUR2 660</td>
<td>4</td>
<td>Reasoning in Neonatology 1</td>
</tr>
<tr>
<td>NUR2 664</td>
<td>4</td>
<td>Neonatal Health Assessment</td>
</tr>
<tr>
<td>NUR2 665</td>
<td>4</td>
<td>Newborn Internship</td>
</tr>
</tbody>
</table>

**23.11.14 Graduate Certificate; 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Reasoning in Primary Care 4</td>
</tr>
<tr>
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</tbody>
</table>

**23.11.15 Graduate Diploma in Neonatal Nurse Practitioner (30 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 650D1</td>
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<td>Neonatology Internship</td>
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<td>NUR2 650D2</td>
<td>11</td>
<td>Neonatology Internship</td>
</tr>
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<td>NUR2 661</td>
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<td>Reasoning in Neonatology 2</td>
</tr>
<tr>
<td>NUR2 666</td>
<td>4</td>
<td>Neonatal Follow-Up Internship</td>
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</tbody>
</table>
23.11.1.16 Graduate Diploma in 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>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR2 651</td>
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<tr>
<td>NUR2 676</td>
<td>4</td>
<td>Primary Care Assessment</td>
</tr>
</tbody>
</table>

23.11.1.17 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**

A minimum of 18 credits beyond the master's level. Courses and seminars in research design, issues of measurement, advanced nursing, development of theory in nursing, advanced statistics, and complementary course(s) in the student's major field of study are compulsory. The student's program is decided in consultation with the thesis supervisor.

The nursing courses are offered every two years and incoming students may begin their studies with either Schedule A or B.

The following table outlines the suggested sequence of courses for the program:

**Ph.D. Schedule A:**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Credits</th>
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<tr>
<td>NUR2 703</td>
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<td>Issues of Measurement</td>
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<tr>
<td>NUR2 730</td>
<td>3</td>
<td>Theory Development in Nursing</td>
</tr>
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</table>

Selected courses (Statistics, complementary, or substantive courses).

**Ph.D. Schedule B:**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NUR2 702</td>
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</tr>
<tr>
<td>NUR2 780</td>
<td>3</td>
<td>Advanced Nursing</td>
</tr>
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</table>

Selected courses (Statistics, complementary, or substantive courses).

**Semester Following Completion of Coursework:**

<table>
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<tr>
<th>Course code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NUR2 701</td>
<td>1</td>
<td>Comprehensive Examination</td>
</tr>
</tbody>
</table>

Note: A minimum of 3 credits in advanced statistics and substantive courses is planned with the thesis supervisor.

23.11.1.18 Doctor of Philosophy (Ph.D.); Nursing — Psychosocial Oncology

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>
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<tr>
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<tr>
<td>NUR2 702</td>
<td>(3)</td>
<td>Quantitative Research</td>
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<tr>
<td>NUR2 703</td>
<td>(3)</td>
<td>Issues of Measurement</td>
</tr>
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<td>NUR2 705</td>
<td>(3)</td>
<td>Palliative Care</td>
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<td>NUR2 730</td>
<td>(3)</td>
<td>Theory Development in Nursing</td>
</tr>
<tr>
<td>NUR2 780</td>
<td>(3)</td>
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</tr>
<tr>
<td>NUR2 783</td>
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<td>Psychosocial Oncology Research</td>
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Selected course(s) (Statistics)*

*Note: A minimum of 3 credits in advanced statistics.

**Complementary Courses**

One of the following courses:

<table>
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<tr>
<td>PSYC 753</td>
<td>(3)</td>
<td>Health Psychology Seminar 1</td>
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<td>SWRK 609</td>
<td>(3)</td>
<td>Understanding Social Care</td>
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<tr>
<td>SWRK 668</td>
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<td>Living with Illness, Loss and Bereavement</td>
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### School of Physical and Occupational Therapy

#### 24 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

*Martin Kreiswirth, Ph.D.*  
*Associate Provost (Graduate Education)*  
*Dean, Graduate and Postdoctoral Studies*
24.2 Graduate and Postdoctoral Studies

24.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
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<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
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<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
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<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
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<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</td>
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<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
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</tr>
</tbody>
</table>

24.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

24.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

24.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

24.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

24.5 Program Requirements

24.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

24.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

### 24.5.3 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 and contact the relevant department.

### 24.5.4 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 required course 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.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

Courses taken at other institutions to be part of the requirements of a program of study must be approved by GPS before registration. Double counting is not permitted.
24.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

24.7 Fellowships, Awards, and Assistantships

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

24.8 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.

24.8.1 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.).

24.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

24.8.3 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

24.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#poli under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

24.8.5 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.

### 24.9 Graduate Studies Guidelines and Policies

Refer to the [eCalendar](#) under University Regulations and Resources > Graduate > section 3: 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

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

Refer to the [eCalendar](#) under University Regulations and Resources > Graduate > section 7: 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

### 24.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.
24.11.1 Physical and Occupational Therapy

24.11.1.1 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 and Associate Dean – Annette Majnemer; B.Sc.(O.T.), M.Sc., Ph.D.(McG.)
Email: admincoord.pot@mcgill.ca

Director's Academic Associate – Sarah C. Marshall; B.Sc.(P.T.), M.Sc.(McG.)
Email: sarah.marshall@mcgill.ca

Academic Director, Physical Therapy – Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)
Email: profmasters.pot@mcgill.ca

Academic Associate Director, Physical Therapy – Liliane Asseraf-Pasin; B.Sc.(P.T.), Ph.D.(McG.)
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Academic Director, Occupational Therapy – Bernadette Nedelec; B.Sc.(O.T.), Ph.D.(Alta.)
Email: profmasters.pot@mcgill.ca

Academic Associate Director, Occupational Therapy – Aliki Thomas; B.Sc.(O.T.), M.Ed., Ph.D.(McG.)
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Academic Director, Graduate Programs – Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab.Sc.)(McG.)
Email: graduate.rehabilitation@mcgill.ca

Academic Associate Director, Graduate Program – Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)
Email: graduate.rehabilitation@mcgill.ca

24.11.1.2 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 programs in three areas: Occupational Therapy, Physical Therapy, and Graduate Studies in Rehabilitation Sciences (master's and doctorate). Two graduate certificate programs are also offered: 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 24.11.1.5: 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 24.11.1.6: 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 24.11.1.7: Master of Science, Applied (M.Sc.A.): Physical Therapy (Non-Thesis) (58 credits)

The Master of Science, Applied, in Physical Therapy is a 58-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.

section 24.11.1.8: Master of Science, Applied (M.Sc.A.): Occupational Therapy (Non-Thesis) (58 credits)

The Master of Science (Applied) in Occupational Therapy program is a 58-credit 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. 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.

section 24.11.1.9: 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 24.11.1.10: Graduate Certificate in 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 24.11.1.11: Graduate Certificate in Chronic Pain Management (15 credits)

Please contact the Department for more information about this program.

24.11.1.3 Physical and Occupational Therapy Admission Requirements and Application Procedures

24.11.1.3.1 Admission Requirements

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 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 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 100 on the Internet-based test, with each component score not less than 20 (School requirement), or the IELTS (International English Language Testing System) with a minimum overall band score of 7.0;
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 mandatory.

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.

Note: McGill University's Institutional code for the TOEFL and GRE is 0935.

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 from a university of recognized reputation;
2. Same as point 2 in M.Sc. in Rehabilitation Science (Thesis) above;
3. No prerequisite courses;
4. Same as point 4 M.Sc. in Rehabilitation Science (Thesis) above;
5. In the Applicant Statement on the web application, please describe your motivation, preparedness, suitability, and reasons for choosing the O.T. or P.T. Professional program;
6. Knowledge of French is highly recommended. Variety of clinical placements is severely restricted for students who do not speak French;
7. Successful completion of an interview to be held in May.

Qualifying Year for Entry into M.Sc.A. (P.T.)

1. Same as Qualifying Year for Entry into M.Sc.A. (O.T.) above;
2. Evidence of high academic achievement equivalent to a McGill CGPA of 3.2;
3. See points 3, 4, 5, 6, and 7 under Qualifying Year for Entry into M.Sc.A. (O.T.) above.

M.Sc.A. (O.T.)

A B.Sc. (Rehabilitation Science) majoring in O.T., or evidence of high academic achievement in Qualifying year for entry into M.Sc.A. (O.T.), equivalent to B standing, or a McGill CGPA of 3.0 (70–74%) is required.

M.Sc.A. (P.T.)

A B.Sc. (Rehabilitation Science) majoring in P.T., or evidence of high academic achievement in Qualifying year for entry into M.Sc.A. (P.T.), equivalent to B standing, or a McGill CGPA of 3.0 (70–74%) is required.

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 B+ standing, or a McGill CGPA of 3.3 (75–79%) is required;
3. Proof of proficiency in English. 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), 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 100 on the Internet-based test with each component score not less than 20 (School requirement), or the IELTS (International English Language Testing System) with a minimum overall band score of 7.0.
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.

Note: McGill University's Institutional code for the TOEFL and GRE is 0935.

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 B standing or a McGill CGPA of 3.0 (70–74%);
3. See points 4, 5, and 7 under M.Sc. in Rehabilitation Science 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 B standing or a McGill CGPA of 3.0 (70–74%);
3. See points 3, 4, and 5 under M.Sc. in Rehabilitation Science above for more information on prerequisites, TOEFL, and GRE.

2411.132 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

2411.1321 Additional Requirements

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

• For M.Sc. in Rehabilitation Science (Thesis and Non-Thesis) and Ph.D. in Rehabilitation Science: GRE is recommended for those 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 mandatory.

• For M.Sc. in Rehabilitation Science (Non-Thesis): two years of clinical experience is recommended.

24.11.3.2 Application Deadlines

The application deadlines listed here 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.

### Qualifying Year M.Sc.A.

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### M.Sc.A. (O.T.) and M.Sc.A. (P.T.)

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### Graduate Certificate in Driving Rehabilitation

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### Graduate Certificate in Chronic Pain Management

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### Rehabilitation Science

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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).

### 24.11.1.4 Physical and Occupational Therapy Faculty

**Director and Associate Dean**

Annette Majnemer

**Director’s Academic Associate**

Sarah C. Marshall; B.Sc.(P.T.), M.Sc.(Rehab.Sc.)

**Academic Director, Occupational Therapy**

Bernadette Nedelec
## Academic Associate Director, Occupational Therapy

Aliki Thomas

## Academic Director, Physical Therapy

Judith Soicher

## Academic Associate Director, Physical Therapy

Liliane Asseraf-Pasin

## Academic Director, Graduate Programs

Isabelle Gélinas

## Academic Associate Director, Graduate Programs

Laurie Snider

## 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)

Patricia McKinley; B.A., M.A.(Dev.Bio.), Ph.D.(Kinesiology)(Calif.-LA)


## 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

Philippe Archambault; B.Sc.(O.T.)(McG.), M.Sc.A, Ph.D.(Montr.)

Joyce Fung; B.Sc.(P.T.)(Hong Kong Polytech. U.), Ph.D.(McG.)

Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab.Sc.)(McG.)

Eva Kehayahia; 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.)

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

Sara Ahmed; B.Sc.(P.T.), M.Sc., Ph.D.(McG.) (*on leave*)

Dana Anaby; B.O.T., M.Sc.O.T.(Tel Aviv), Ph.D.(Br. Col.)

Patricia Belchior da Cunha; B.S.(Law), B.S.(O.T.) (Dom Bosco Catholic U.), Ph.D.(Flor.)

Marie-Hélène Boudrias; B.Sc.(P.T.),(Montr.), Ph.D.(Neuro.) (Kansas)

André Bussières; B.Sc.(Nursing)(Montr.), D.C., M.Sc.(UQTR)

Isabelle Gagnon; B.Sc.(P.T.)(McG.), M.Sc., Ph.D.(Montr.)

Matthew Hunt; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)

Raphael Lencucha; B.Sc.(Kinesiology)(Calg.), B.Sc.(O.T.)(Alta.), Ph.D.(Health Promo.)(W. Ont.)

Barbara Mazer; B.Sc.(O.T.)(Qu.), M.Sc., Ph.D.(McG.)

Melissa Park, B.A.(Yale), M.A.(O.T.), Ph.D.(USC)
## Assistant Professors

- Richard Preuss; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc.(Wat.), Ph.D.(McG.)
- Shawn Robbins; B.Sc.(P.T.), M.Sc.(P.T.), Ph.D.(W. Ont.)
- Marc Roig Pull; M.Sc.(Nott.), Ph.D.(Br. Col.)
- Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)

## Assistant Professors (Professional)

- Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)
- Cynthia Perlman; B.Sc.(O.T.), M.Ed.(McG.)
- Caroline Storr; B.Sc.(O.T.), M.B.A.(Cdia)
- Aliki Thomas; B.Sc.(O.T.), M.Ed., Ph.D.(McG.)
- Adriana Venturini; B.Sc.(P.T.), M.Sc.(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.)
- Marie-Eve Bolduc; B.Sc.(O.T.), M.Sc.(McG.)
- Franzina Coutinho; B.Sc.(O.T.), M.O.T.(Mumbai), Ph.D.(O.T.)(Texas)
- Marika Demers; B.Sc.(O.T.)(Montr.)
- Nancy Forget; B.Sc.(O.T.)(McG.), M.Sc.(Montr.)
- 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.)
- Sara Saunders; B.Sc.(O.T.)(Dal.)
- Frangiska Xenopoulos; B.Sc.(P.T.)(McG.), M.A.(Clin.Sc.)(W. Ont.)
- Hiba Zafran; B.Sc., B.Sc.(O.T.), M.Sc.(McG.)

## Professional Associates

- Fernanda Alves; B.Sc.(P.T.)(McG.)
- Ann Hetherington; B.Sc.(P.T.)(McG.)
- Linda Labelle; B.Sc.(P.T.)(Montr.), D.A.S.(HEC)
- Sylvie Laplante; B.Sc.(O.T.)(McG.)
- Vassiliki Lyroudias; B.Sc.(Anat.), B.Sc.(O.T.)(McG.)
- Donald Macleod; B.Sc.(P.T.)(McG.)
- Anita Menon; B.Sc.(O.T.); M.Sc.(McG.)
- Rochelle W. Rein; B.Sc.(P.T.)(McG.)
- Ana Maria Rodriguez; B.Sc.(P.T.), M.Sc.(McG.)
- Kimberley Smalridge; B.Sc.(P.T.)(McG.), B.A.(C'dia)

## Faculty Lectureship (Nil Salary)

- Tammy Abramovitch-Ostroff; B.Sc.(P.T.)(McG.)
- Melanie Berghorson; M.Sc.(O.T.)(ATSU)
Faculty Lectureship (Nil Salary)

Zachary Boychuck; M.Sc.(A)(O.T.)(McG.)
Clara Carpintero; B.A.(O.T.), B.Sc.(O.T.)(Bogota), M.Ed.(McG.)
Tammam El-Khodor; B.Sc.(O.T.), M.Sc.(Br. Col.)
Erin Freedin; B.Sc.(C'dia), M.Sc.(O.T.)(Qu.)
Lynn E. Gillespie; B.Sc.(P.T.)(Alta.), M.Sc.(Laval)
Sherry Katz; B.Sc.(McG.), B.Sc.(P.T.)(McG.)
Nathalie Khoury; B.Sc.(O.T.)(McG.)
Loo Kim; B.Sc.(O.T.)(Ott.)
Masoud Mehrzad; B.Sc.(O.T.)(Tehran), M.H.A.(Montr.)
Filomena Novello; B.Sc.(P.T.)(McG.), M.Sc.(Laval)
Ada Pagnotta; B.Sc.(O.T.)(McG.), M.Sc.(App.Rehab.)(McG.)
Marla Rapoport; B.Sc.(P.T.)(McG.)
Jenne Saunders; M.Sc.(A)(O.T.)(McG.)
Julie Valiquette; B.Sc.(P.T.)(McG.)
Elizabeth Wynands; B.Sc.(O.T.)(McG.)
Stephanie Steen; B.Sc.(P.T.)(McG.)

Adjunct Professors

Nancy Alarie; B.Sc.(P.T.)(McG.)
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)

24.11.1.5 Master of Science (M.Sc.); Rehabilitation Science (Thesis) (45 credits)

Thesis Courses (29 credits)

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<td>POTH 698</td>
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<td>POTH 699</td>
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| Thesis Research | |
| Thesis Research 1 | |
| Thesis Research 2 | |
| Thesis Research 3 | |

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.

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<td>POTH 628</td>
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| Research Methodology | |
| Selected Topics in Rehabilitation Science | |
| Seminars in Rehabilitation Science | |
| Rehabilitation Seminars 1 | |
| Introduction to Regression Analysis | |

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.

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<td>POTH 604</td>
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<td>Current Topics in Pediatrics</td>
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<td>POTH 618</td>
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<td>POTH 630</td>
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<td>Measurement: Rehabilitation 2</td>
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<td>POTH 673</td>
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<td>Screening for at Risk Drivers</td>
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<td>POTH 682</td>
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24.11.1.6 Master of Science (M.Sc.); Rehabilitation Science (Non-Thesis) (45 credits)

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)

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<td>Introduction to Regression Analysis</td>
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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.

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<td>Selected Topics in Rehabilitation Science</td>
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<td>POTH 618</td>
<td>(3)</td>
<td>Topics in Rehabilitation</td>
</tr>
<tr>
<td>POTH 620</td>
<td>(3)</td>
<td>Measurement: Rehabilitation 1</td>
</tr>
<tr>
<td>POTH 630</td>
<td>(3)</td>
<td>Measurement: Rehabilitation 2</td>
</tr>
<tr>
<td>POTH 631</td>
<td>(3)</td>
<td>Research Proposal</td>
</tr>
<tr>
<td>POTH 673</td>
<td>(3)</td>
<td>Screening for at Risk Drivers</td>
</tr>
<tr>
<td>POTH 674</td>
<td>(3)</td>
<td>Assessing Driving Ability 1</td>
</tr>
<tr>
<td>POTH 675</td>
<td>(3)</td>
<td>Driving Assessment Practicum</td>
</tr>
<tr>
<td>POTH 676</td>
<td>(3)</td>
<td>Adaptive Equipment and Driving</td>
</tr>
</tbody>
</table>
POTH 677 (3) Retraining Driving Skills  
POTH 682 (3) 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>Course Code</th>
<th>Credits</th>
<th>Description</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.

24.11.1.7 Master of Science, Applied (M.Sc.A.); Physical Therapy (Non-Thesis) (58 credits)

The Master of Science, Applied, in Physical Therapy is a 58-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.

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>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTH 624</td>
<td>6</td>
<td>Master’s Project</td>
</tr>
</tbody>
</table>

**Required Courses (46 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</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>7</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>2</td>
<td>Integrated Pain Management</td>
</tr>
<tr>
<td>PHTH 623</td>
<td>3</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>3</td>
<td>Advanced 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:
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.

24.11.1.8 Master of Science, Applied (M.Sc.A.); Occupational Therapy (Non-Thesis) (58 credits)
The Master of Science, Applied, in Occupational Therapy is a 58-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 (49 credits)

OCC1 501 (7) Clinical Practicum 1
OCC1 502 (7) Clinical Practicum 2
OCC1 503 (7) Clinical Practicum 3
OCC1 602 (7) Clinical Practicum 4
OCC1 617 (6) Occupational Solutions 2
OCC1 618 (5) Applied OT: Psychosocial Theory
OCC1 620 (2) Work/Ergonomics
OCC1 622 (3) Community-Based OT
OCC1 623 (2) Assistive Technology
POTH 612 (3) Advanced 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 627 (3) Advanced Topics in Dysphagia
POTH 632 (3) Research Elective
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.

24.11.1.9 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.

24.11.1.10 Graduate Certificate in 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
Note: POTH 673 and 674 are offered online, whereas POTH 675, POTH 676, and POTH 677 have both online components and intensive workshops.

24.11.11 Graduate Certificate in 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.

or another 3-credit graduate level 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.

25 Faculty of Religious Studies

25.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies
25.2 Graduate and Postdoctoral Studies

25.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</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>

25.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

25.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

25.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

25.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

25.5 Program Requirements

25.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

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 form, 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/gps/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.

25.5.2 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 as possible.

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 form 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.

### 25.5.3 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 and contact the relevant department.

### 25.5.4 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/graduates/registration#coarsereg.

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 in graduate programs, diplomas, and certificates must be approved by GPS.

Courses taken at other institutions to be part of the requirements of a program of study must be approved by GPS before registration. Double counting is not permitted.
25.6 Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

25.7 Fellowships, Awards, and Assistantships

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

25.8 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.

25.8.1 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.).

25.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

25.8.3 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

25.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#polic under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

25.8.5 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.

25.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

25.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

25.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.
25.11.1 Religious Studies

25.11.1.1 Location

Faculty 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

25.11.1.2 About Religious Studies

The Faculty 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.), and 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 world-renowned Faculty 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; and Buddhism. The many different areas of research interest among members of the Faculty frequently require the hiring of graduate students as research assistants, especially as the Faculty is so successful in gaining research grants. The Faculty 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 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 Faculty 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 Faculty 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 Faculty. 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 Faculty, 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 25.11.1.5: Master of Arts (M.A.); Religious Studies (Thesis) (48 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 25.11.1.6: 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 Religious Studies Department 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 25.11.1.7: 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 departments 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 25.11.1.8: 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 25.11.1.9: Master of Sacred Theology (S.T.M.); Religious Studies (Non-Thesis) (48 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 25.11.1.10: 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 Faculty 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 25.11.1.11: 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 Department for more information about this option.

25.11.1.3 Religious Studies Admission Requirements and Application Procedures

25.11.1.3.1 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.) (Thesis) in Religious Studies with specialization in Bioethics

For information contact the Chair, Master's Specialization in Bioethics, Biomedical Ethics Unit, at:

3690 Peel Street
Montreal QC H3A 1W9
Telephone: 514-398-6980
Fax: 514-398-8349
Email: jennifer.fishman@mcgill.ca

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 honors 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 25.11.1.2: 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.

**25.11.1.3.2 Application Procedures**

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

See section 5.3: Application Procedures for detailed application procedures.

**25.11.1.3.2.1 Additional Requirements**

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

- Personal Statement – approximately 500 words
- Written Work – recent academic writing

**25.11.1.3.3 Application Deadlines**

The application deadlines listed here are set by the Faculty 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.

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: March 15*</td>
<td>Fall: March 15*</td>
<td>Fall: March 15*</td>
</tr>
<tr>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

* For funding consideration, the application for September admission must be submitted by January 15.

**Note:** Applications for Winter term admission to the M.A. Bioethics option will not be considered.

**25.11.1.4 Religious Studies Faculty**

**Dean, Faculty of Religious Studies**

Ian Henderson (Acting)

**Graduate Program Director**

Patricia G. Kirkpatrick

**Graduate Admissions Chair**

Ian Henderson

**Emeritus Professors**

Gregory B. Baum; B.A.(McM.), M.A.(Ohio), D.Th.(Fribourg)

Maurice Boutin; B.A., B.A.(Montr.), D.Th.(Munich) (*J.W. McConnell Professor of Philosophy of Religion*)


Donna R. Runnalls; B.A.(Br. Col.), B.D.(McG.), Ph.D.(Tor.)

Frederik Wisse; Ing.(Utrecht), B.A., B.D.(Calvin), Ph.D.(Claremont)

Katherine K. Young; B.A.(Vermont), M.A.(Chic.), Ph.D.(McG.)
Professors
Douglas B. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.)
Torrance Kirby; B.A.(KCNS), M.A.(Dal.), D.Phil.(Oxf.)
Gerbern S. Oegema; B.A., Th.D.(Vrije Universiteit, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen)
Arvind Sharma; B.A.(Allld.), M.A.(Syrac.), M.T.S., Ph.D.(Harv.) (*Henry Birks Professor of Comparative Religion*)

Associate Professors
Ellen B. Aitken; A.B.(Harv.), M.Div.(Univ. of the South), Th.D.(Harv.) (*In memoriam*)
Lara Braitsstein; B.A., M.A., Ph.D.(McG.)
Daniel Cere; B.A., M.A.(McG.), Ph.D.(C'dia)
Gaelle Fiasse; B.A., M.A., Ph.D.(Louvain) (*joint appt. with Philosophy*)
Garth Green; B.A.(Ariz.), M.A.(Catholic Univ. of Louvain), M.A., Ph.D.(Boston)
Ian H. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.)
G. Victor Hori; B.A.(York), M.A.(Tor.), Ph.D.(Stan.)
Davesh Soneji; B.A.(Manit.), Ph.D.(McG.)

Assistant Professors
Jim Kanaris; B.A.(C'dia), M.A., Ph.D.(McG.)
Andrea M. Pinkney; B.A.(McG.), M.A.(UH Manoa), Ph.D.(Col.)

Numata Visiting Professor
Burkhard Scherer; M.A.(WWU Münster), Ph.D.(Groningen)

Adjunct Professors
George Di Giovanni; Barbara Galli; Hilliard T. Goldfarb; Alyson Huntly; Philip Joudrey; William Klemper; T. Jinpa Langri; Anne Leahy; Lucille Marr; Susan Palmer; Angelica Piché; Vanessa R. Sasson; John M. Simons; David Williams; Dale Woods

25.11.1.5 Master of Arts (M.A.); Religious Studies (Thesis) (48 credits)

Thesis Courses (27 credits)
- 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 Course (3 credits)
- RELG 645 (3) Methods in Religious Studies

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.
25.11.1.6 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.

25.11.1.7 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.

25.11.1.8 Master of Arts (M.A.); Religious Studies (Non-Thesis) (45 credits)

**Research Project (9 credits)**

- RELG 660 (3) M.A. Research Paper 1
- RELG 661 (3) M.A. Research Paper 2
Required Courses (6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<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.

25.11.1.9 Master of Sacred Theology (S.T.M.); Religious Studies (Non-Thesis) (48 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 (or one year of full-time study for those admitted with advanced standing into S.T.M. 2), 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 affiliated with the Faculty of Religious Studies.

Students admitted to Year 1 are required to complete twelve one-term courses (36 credits) and pass four Area Studies courses (12 credits). Students admitted to Year 2 are required to complete six one-term courses (18 credits) and pass two Area Studies courses.

Required Courses (48 credits)

Year 1 entrants, 12 credits from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELG 520</td>
<td>3</td>
<td>Biblical Theology</td>
</tr>
<tr>
<td>RELG 530</td>
<td>3</td>
<td>Church History</td>
</tr>
<tr>
<td>RELG 531</td>
<td>3</td>
<td>Christian Theology</td>
</tr>
<tr>
<td>RELG 540</td>
<td>3</td>
<td>Philosophy of Religion</td>
</tr>
<tr>
<td>RELG 541</td>
<td>3</td>
<td>Theological Ethics</td>
</tr>
<tr>
<td>RELG 550</td>
<td>3</td>
<td>Comparative Religion</td>
</tr>
</tbody>
</table>

Year 1 entrants: 12 credits of additional courses.

Year 2 entrants: 6 credits of additional courses.

Students who take the S.T.M. 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.

Course selection for all S.T.M. students needs the approval of the Chair of Religious Studies Graduate Committee.

Related courses are also available in other departments.

25.11.1.10 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.
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.

25.11.1.11 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

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</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>
<td>0</td>
<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>
<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:

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<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.

**Language Requirements**
Modern and ancient languages as stipulated by field of study.

### 26 Schulich School of Music

#### 26.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada’s most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

*Martin Kreiswirth, Ph.D.*
*Associate Provost (Graduate Education)*
*Dean, Graduate and Postdoctoral Studies*

#### 26.2 Graduate and Postdoctoral Studies

##### 26.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td><em>Associate Provost (Graduate Education)</em> and <em>Dean (Graduate and Postdoctoral Studies)</em></td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td><em>Associate Dean (Graduate and Postdoctoral Studies)</em></td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td><em>Associate Dean (Graduate and Postdoctoral Studies)</em></td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</td>
<td><em>Associate Dean (Graduate and Postdoctoral Studies)</em></td>
</tr>
<tr>
<td>Elisa Pylkkanen; B.A., M.A.(McG.)</td>
<td><em>Director (Graduate and Postdoctoral Studies)</em></td>
</tr>
</tbody>
</table>

##### 26.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

Program Requirements

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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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.

Coursework – Master's Degrees

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

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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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 expecting to enrol in Professional Corporations in the province of Quebec are advised to become fluent in both spoken and written French. Candidates are advised to discharge their language requirements as early in their program as possible. Competence by a pass standing in two undergraduate language courses taken at McGill (see departmental regulations). Students must contact their departments to make arrangements to take the Language Reading Proficiency Examinations. Students may, however, demonstrate another language through demonstrated reading knowledge. The usual languages are French, German, or Russian, but in particular instances another language may be necessary.

Language requirements for the Ph.D. degree are met through demonstrated reading knowledge. The usual languages are French, German, or Russian, but in cases, 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.

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

Research and Thesis – Master's Degrees

Residents must be registered on a full-time basis to complete their program. Residents must complete the residency requirement and (or) the corresponding fees) in their program.

Candidates entering Ph.D. 1 must pass an examination 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 14.8.3: 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.

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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form in accordance with the dates on www.mcgill.ca/importdntdates, 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](http://www.mcgill.ca/gps/thesis/guidelines).

**26.5.3 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.

**26.5.4 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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

**26.6 Graduate Admissions and Application Procedures**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.

**26.7 Fellowships, Awards, and Assistantships**

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.
26.8 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.

26.8.1 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.).

26.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellow/letter). 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 Vacations, Parental/Familial, and Health Leave (see section 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

   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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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.
26.8.3 **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*

26.8.4 **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 the *eCalendar* under *University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the *eCalendar* under *University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at <www.mcgill.cagps/funding/students-postdocs/accepting-maintaining-awards#poli> under "Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

26.8.5 **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.
26.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

26.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

26.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

26.11.1 Schulich School of Music

26.11.1.1 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

26.11.1.2 About Schulich School of Music

The Schulich School of Music of McGill University, ranked Top 10 globally by the Princeton Review, 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, and the Centre for Interdisciplinary Research in Music, Media and Technology (CIRMMT), as well as a research network that links the Faculty with many 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 Professional Performance is open to accomplished professional musicians, singers, or established chamber ensembles wishing one year of in-depth studies to complete a specific project.

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.

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/students-postdocs). A limited number of one-year differential fee waivers are also available for the most highly ranked incoming international students. The Scholarship 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.). Some provide for multi-year funding, others funding for individual projects.

Opportunities for funding through Work Study and as paid assistants also provide professional training. Positions for teaching assistants are advertised each semester by departmental announcement. Typically there are few, if any, positions available for students in their first year of study. Other types of positions can include: invigilators, apprentice writers for program notes, sound recording technicians, library assistants, stage hands, Opera Studio, and front-of-house staff, among others. Posts are advertised 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 Director of Graduate Studies and the Associate Dean for Research.

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/about-us/contact-us/booking-office).

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/current-students/graduate/forms).

**Master's Programs**

**section 26.11.1.5: 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.

**section 26.11.1.6: 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 in areas such as musical development, music perception, world and community-based music education, philosophical issues in music education, performance anxiety, music performance adjudication, technological applications, and the physiological bases of musical performance. Graduates of the program continue on to doctoral studies and pursue teaching careers around the world in various settings.
GRADUATE AND POSTDOCTORAL STUDIES

section 26.11.1.7: 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 acoustic 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.

section 26.11.1.8: 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 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.

section 26.11.1.9: 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.

section 26.11.1.10: 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.

section 26.11.1.11: 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.

section 26.11.1.12: 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.

section 26.11.1.13: Master of Arts (M.A.); Music — Music Education (Non-Thesis) (45 credits)

section 26.11.1.14: Master of Arts (M.A.); Music — Musicology (Non-Thesis) (45 credits), and

section 26.11.1.15: Master of Arts (M.A.); Music — Theory (Non-Thesis) (45 credits)

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
section 26.11.1.13: Master of Arts (M.A.); Music — Music Education (Non-Thesis) (45 credits),
section 26.11.1.14: Master of Arts (M.A.); Music — Musicology (Non-Thesis) (45 credits), and
section 26.11.1.15: Master of Arts (M.A.); Music — Theory (Non-Thesis) (45 credits)

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-of-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.

section 26.11.1.16: Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 credits)

The Master of Music: Vocal Pedagogy is not being offered in the 2014–2015 academic year.

section 26.11.1.17: 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.

section 26.11.1.18: 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 (vocal, madrigal, viol, and recorder consorts, etc.), the Cappella Antica, and the Baroque Orchestra. McGill is also the only North American music faculty to produce a fully staged performance of an early opera every year. Recent productions include: Handel’s Alcina, Agrippina, and Imeneo, Lully’s Thésée, 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, Les Violons du Roy 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 26.11.1.19: Master of Music (M.Mus.); Performance: Orchestral Instruments and 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 five orchestras—two full orchestras (the renowned McGill Symphony Orchestra and the McGill Sinfonetta), one opera orchestra, one baroque orchestra, and one contemporary music ensemble—as well as one large wind symphony and one 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, and in Europe, and with the Canadian Opera Company, Ensemble Moderne, and others.

section 26.11.1.20: 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, opera accompanists, opera repetiteurs, studio teachers, and coaches.
section 26.11.1.21: 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 that blends performance training with humanities-based scholarship. 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 repertoire. 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 as independent studio teachers.

section 26.11.1.22: Master of Music (M.Mus.); Performance: Organ and Church Music (Thesis) (45 credits)

This program provides talented organists and church music scholars with an opportunity to hone their artistry and interpretive skills. The flexibly designed program combines performance with seminars in historically informed performance practice, music and liturgy, counterpoint, improvisation, continuo playing, and choral conducting, among other options. Thesis performance options allow for creativity and diversity by including options for solo and chamber music recitals, concerto performances, recording projects, church music projects, and opportunities for interdisciplinary research and collaborations with strong composers and other departments. Students benefit from excellent facilities that include practice organs built by Beckerath, Casavant, Tsujii, Wilhelm, and Wolff, as well as the famous French classical organ in Redpath Hall. A number of assistantships are available in downtown churches with some of Montreal’s most distinguished church musicians. Graduates have won prizes in major national and international competitions and pursue church music careers around the world.

section 26.11.1.23: Master of Music (M.Mus.); Performance: Conducting (Thesis) (45 credits)

Students in this program specialize in orchestral, wind, 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 period 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.

section 26.11.1.24: 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 repertoire. There are three opera productions every year, including one Early Music 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 Diploma

section 26.11.1.25: Graduate Diploma in Professional Performance (30 credits)

This is a new, one-year postgraduate diploma providing concentrated study for three types of extremely accomplished musicians: the emerging or professional singer, emerging or established chamber ensemble (including jazz combos, piano collaborations), and the individual artist preparing for competition, audition, concerto performance, tour, recording project, etc. The flexibly designed program assumes a high level of performance (doctoral/professional) and involves intensive coaching, performance, and repertoire study/research tied to the artist’s or chamber ensemble’s professional goals, and a media project. Singers have voice coaching and training in movement and acting, with performance opportunities linked to McGill Opera productions. Ensembles develop individual artistry as well as group identity, with respect to sound, communication, skills, and performance practice. The first graduates of the program, the Cecilia String Quartet, won the 2010 International Banff String Quartet Competition and were prizewinners at the Bordeaux 2010 International Chamber Music Competition.

Doctoral Programs

section 26.11.1.26: Doctor of Music (D.Mus.); Music — Composition

Students in this program 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 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 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.
Assessment of background preparation: Applicants for the master's degree must hold a B.Mus. or a B.A. degree with a Major or Honours in music including considerable work done in the area of specialization.

All applicants (except those for Performance, Musicology, and Sound Recording) will be required to take placement examinations.

Graduate Diploma in Professional Performance

This program is for the artist/scholar. Students perform at a professional or near-professional level and have well-defined research interests linked to their performance. A broad range of seminars ground performance practice in the broader humanistic and scientific contexts of music and artistic research-creation. Seminars encourage the critical thinking and the fertile exchange of ideas that promote new ways of engaging with music by providing a forum in which performers can interact with students in other areas. Comprehensive examinations provide students with an opportunity to develop credentials in three areas of expertise in preparation for teaching careers, while articulating the background and critical issues surrounding their thesis work. The latter consists of a lecture/recital and a paper (including a recording of the recital). 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.

Ph.D. in Music

Students in the Ph.D. program pursue original research that makes a significant contribution to the fields of Composition, Music Education, Musicology, Music Technology, Sound Recording, and Theory. Seminars, a doctoral colloquium, visiting lecturer series, and international conferences provide forums for students from different areas to interact by encouraging the critical thinking and fertile exchange of ideas that promote new ways of engaging with music through listening, performing, cutting-edge technologies, and analytical methods. Opportunities for inter- and cross-disciplinary collaborations exist through the Centre for Interdisciplinary Research in Music, Media and Technology; the Institute for the Public Life of Art and Ideas; the Institute for Gender, Sexuality, and Feminist Studies; the Performance Department; other departmental links across the University and, in the technology areas, with science and industry. Supportive faculty recognized internationally as leaders in their respective disciplines mentor students from admission through job placements. Travel funding exists for students to present papers at conferences; many students win external scholarships (SSHRC, FRQSC, Vanier, Rhodes Scholar, etc.) and national and international awards; students gain valuable pedagogical or technological training through teaching and lab assistantships. Graduates pursue careers in academia, industry, composition, and various other arts-related fields.

Doctor of Philosophy (Ph.D.); Music — Performance Studies

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. Theses engage with all repertoires and analytical methods.

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 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.

Schulich School of Music Admission Requirements and Application Procedures

Admission Requirements

Master’s Degrees

Applicants for the master’s degree must hold a B.Mus. or a B.A. degree with a Major or Honours 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. applicants will be required to take a live audition. Conducting and female voice applicants 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/future-students/graduate/audition-requirements).

Specific admission and document requirements for each program are outlined at: www.mcgill.ca/music/future-students/graduate.

Graduate Diploma in Professional Performance

Applicants for the Graduate Diploma are typically highly accomplished performers who hold an M.Mus. or a B.Mus. degree with equivalent professional experience. All musicians are required to submit screening material (see D.Mus. audition list for repertoire and level at www.mcgill.ca/music/future-students/graduate/audition-requirements) and a statement of the proposed performance project (that may be completed within one year) by the application deadlines. Only the most advanced applicants will be invited to pass a live entrance audition. Chamber ensembles must apply and complete diploma requirements as a formed ensemble.

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. Only the most advanced applicants with artistic research interests will be invited to pass a live entrance audition and interview.

**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.

### 26.11.1.3.2 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 section 5.3: Application Procedures for detailed application procedures.

### 26.11.1.3.2.1 Additional Requirements

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

- $61.56 audition fee for Performance degrees

### 26.11.1.3.3 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
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<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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<td>Fall: Dec. 1</td>
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<td>Winter: N/A</td>
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</tbody>
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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

### 26.11.1.4 Schulich School of Music Faculty

**Dean, Schulich School of Music**

Sean Ferguson

**Director, Graduate Studies**

Eleanor Stubley

**Associate Director, Graduate Studies**

Lena Weman Ericsson

**Chairs**

Stéphane Lemelin – *Department of Performance*

Christoph Neidhöfer – *Department of Music Research*

**Associate Dean (Research and Administration)**

Julie Cumming

**Associate Dean (Academic and Student Affairs)**

Jacqueline Leclair

**Professors**

William Caplin; B.M.(USC), M.A., Ph.D.(Chic.) (*James McGill Professor*)

Brian Cherney; B.Mus., M.Mus., Ph.D.(Tor.)
Professors

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)
Steven Huebner; B.A., B.Mus., L.Mus.(McG.), M.F.A., Ph.D.(Princ.) (James McGill Professor)
Stephen McAdams; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris) (Canada Research Chair)
John Rea; B.Mus.(Wayne), M.Mus.(Tor.), M.F.A., Ph.D.(Princ.)
Peter Schubert; B.A., M.A., Ph.D.(Col.)
Joel Wapnick; B.A.(NYU), M.A.(SUNY), M.F.A.(Sarah L.), Ed.D.(Syrac.)
Wieslaw Waszczyk; 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)
Theodore Baskin; B.Mus.(Curtis), M.Mus.(Auck.), Principal Oboe, Montreal Symphony
Tom Beghin; Diplôme Supérieur(Louvain), M.A., D.M.A.(Cornell)
Denys Bouliane; B.Mus., M.Mus.(Laval), Graduate, Hochschule für Musik(Hamburg)
David Brackett; B.A.(Calif.-Santa Cruz), M.M.(New England Cons.), D.M.A.(Cornell)
Alain Cazes; Premier Prix(Cons. de Montréal)
Carolyn Christie; B.Mus.(McG.), Montreal Symphony
Julie Cumming; B.A.(Col.), M.A., Ph.D.(Calif., Berk.)
Martha de Francisco; Diplom(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.)
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)
Kyoko Hashimoto; B.Mus.(Tokyo), Professional Studies(Juilliard)
Alexis Hauser; Diplom(Konservatorium der Stadt, Wien)
Aiyun Huang; B.A.(Tor.), D.M.A.(Calif.-San Diego)
Timothy Hutchins; Dip. L.G.S.M.(Guildhall), B.A.Hons.Mus.(Dal.), Principal Flute, Montreal Symphony
Jan Jarzyczyk; B.A., M.A.(Academy of Music, Cracow), Dip.(Berklee)
Abe Kestenberg
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)
Philippe Leroux; Premier Prix(Conservatoire National Supérieur de Musique et de Danse de Paris)
Jean Lesage; Concours, Diplôme d'études supérieures(Cons. de Montréal)
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.)
**Associate Professors**

Christoph Neidhofer; Graduate, Hochschule für Musik (Basel), Ph.D. (Harv.)


Winston Purdy; B.Mus. (McG.), M.M. (Eastman)

André Roy; B.Mus. (Curtis)

Gary Scavone; B.Sc., B.A. (Syrac.), M.Sc., Ph.D. (Stan.)

Thérèse Sevadjian; B.Mus., M.Mus. (Montr.)

Axel Strauss; Dipl. (Musikhochschule Rostock), Prof. Studies Cert. (Juilliard)

Eleanor Stubley; B.Mus. (Tor.), M.Mus. (Bran.), Ph.D. (Ill.)

Joe Sullivan; B.A. (Ott.), M.M. (New England Cons.)

Marcelo Wanderley; B.Eng. (UFPR), M.Eng. (UFSC), Ph.D. (Paris VI and IRCAM)

André White; B.A. (C'dia), M.Mus. (McG.)

Lloyd Whitesell; B.A. (Minn.), M.A., Ph.D. (SUNY Stony Brook)

John Zirbel; B.Mus. (Wisc.), Principal Horn, Montreal Symphony

**Assistant Professors**

Lisa Barg; B.A. (Antioch), M.A., Ph.D. (SUNY Stony Brook)

Nicole Biamonte; B.F.A. (SUNY Purchase), Ph.D., M.Phil. (Yale)

Rémi Bolduc

Guillaume Bourgogne; Premier Prix (CNSMDP)

James Box; B.M. (Southern Methodist U.), M.M. (Cleveland Inst. of Music), Principal Trombone, Montreal Symphony

Isabelle Cossette; Premier Prix (Cons. de Québec), M.Mus. (McG.), D.Mus. (Montr.)

Robert Crowley; B.M. (Eastman), M.M. (Cleveland), Principal Clarinet, Montreal Symphony

Russell DeVuyst; B.Mus.Ed. (Boston Cons.), M.M. (New England Cons.), Associate Principal Trumpet, Montreal Symphony

Elizabeth Dolin; B.Mus. (Tor.), Artist Dip. (Ind.)

Andrew Dunn; P.G.Dip. (GSMD), M.A. (TVU), P.C.R.A.M., L.R.A.M.

Jean Gaudreault; LL.L. (Montr.), Graduate (Cons. de Québec), Montreal Symphony

Chris Paul Harman

Robert Hasegawa; B.A. (Bard. Col.), M.A. (Calif.), Ph.D. (Harv.)

Valerie Kinslow; B.A. (McG.)

Joanne Kolomyjec; B.Mus. (Tor.)

Jacqueline Leclair; B.Mus. (Eastman), M.Mus., D.M.A. (SUNY Stony Brook)

Stéphane Lévesque; Premier Prix (Cons. de Montréal), M.Mus. (Yale), Principal Bassoon, Montreal Symphony

Denise Lupien; B.M., M.M. (Juilliard), Concertmaster, Orchestre Métropolitain

Fabrice Marandola; Premier Prix (Cons. de Paris), M.Mus., Ph.D. (Sorbonne)

Ilya Poletaev; B.Mus. (Tor.), M.Mus., M.A., D.M.A. (Yale)

Richard Roberts; B.Mus. (Ind.), Concertmaster, Montreal Symphony

Brian Robinson; B.Mus. (Tor.), Montreal Symphony

René Rusch; B.Mus. (Lawrence), M.A., M.Mus. (Mannes), Ph.D. (Mich.)

Jennifer Swartz; Dip. (Curtis), Principal Harp, Montreal Symphony

Sanford Sylvan; B.Mus. (Manhattan School of Music)

Lena Weman Ericsson; M.A. (Uppsala), Ph.D. (Luleå)

Jonathan Wild; B.Mus., M.A. (McG.), Ph.D. (Harv.)
Adjunct Professors
Soren Bech; M.Sc., Ph.D.(Tech. Univ. of Denmark)
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)
Steven Epstein; B.S.(Hofstra)
Kenneth Gilbert; D.Mus.honoris causa(McG.), O.C., F.R.S.C., Hon. RAM
Lars T. Lih; B.A.(Yale), B.Phil.(Oxf.), Ph.D.(Princ.)
Jean-Paul Montagnier; B.A., M.A.(Lyon), Ph.D.(Duke)
Axel Mulder; Drs.(Rijks Universiteit Groningen), Ph.D.(S. Fraser)
John Roston; B.A., M.A.(McG.)
Marc-Pierre Verge; B.A., M.Sc.(Laval), Ph.D.(Eiden.)
Herbert Waltl

Faculty Lecturer
Lisa Lorenzino; B.Mus.(Tor.), B.Ed.(Sask.), M.A.(McG.), Ph.D.(Alta.)

Schulich Distinguished Visiting Professor
Georgina Born; B.Sc., Ph.D.(Univ. Coll. Lond.)

26.11.1.5 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.

Required Courses (6 credits)
MU CO 622D1 (3) Composition Tutorial
MU CO 622D2 (3) Composition Tutorial

Complementary Courses (6 credits)
6 credits selected from the following courses:
MU CO 631 (3) Seminar in Composition 1
MU CO 632 (3) Seminar in Composition 2
MU CO 633 (3) Seminar in Composition 3
MU CO 634 (3) Seminar in Composition 4
MU CO 635 (3) Seminar in Composition 5
MU CO 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.
26.11.6 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.

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)
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:

MUGT 610 (3) Seminar - Music Education 1
MUGT 611 (3) Seminar - Music Education 2
MUGT 612 (3) Seminar - Music Education 3
MUGT 613 (3) Seminar - Music Education 4

26.11.7 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.

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)
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.

26.11.8 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.

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

Required Course (3 credits)
Proseminar in Musicology (3) MUHL 529

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:

- 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

26.11.1.9 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.

- 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)
- 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.
### Master of Music (M.Mus.); Sound Recording (Non-Thesis) (60 credits)

#### Program Prerequisites (27 credits)

<table>
<thead>
<tr>
<th>Required Courses (21 credits)</th>
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<tbody>
<tr>
<td>MUCC 260 (3)</td>
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<td>MUMT 250 (3)</td>
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<td>MUSR 232 (3)</td>
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<tr>
<td>MUSR 300D1 (3)</td>
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<td>MUSR 300D2 (3)</td>
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<td>MUSR 339 (3)</td>
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<td>PHYS 224 (3)</td>
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#### 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)

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<th>Required Courses (51 credits)</th>
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<tr>
<td>MUSR 629D1 (2)</td>
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<td>MUSR 629D2 (2)</td>
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<td>MUSR 667 (3)</td>
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<td>MUSR 668 (3)</td>
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<td>MUSR 674 (3)</td>
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<td>MUSR 677D1 (3)</td>
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<td>MUSR 677D2 (3)</td>
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</table>
Electives Courses (9 credits)
Three 3-credit graduate course electives, approved by the Department.

26.11.11 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

26.11.12 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.


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.


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 Musicology Area, four of which must be in the Musicology Area.

One of the courses must be:
MUHL 529 (3) Proseminar in Musicology

26.11.15 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)
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 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:
MUTH 658 (3) History of Music Theory 1
MUTH 659 (3) History of Music Theory 2

26.11.16 Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 credits)
**This program is currently not offered.**
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 Intro to Research Methods in Music
MUPG 210 Italian Diction
MUPG 211 French Diction
MUPG 212 English Diction
MUPG 213 German Diction
Two of:
MUHL 372 Solo Song outside Germany and Austria
MUHL 377 Baroque Opera
MUHL 387 Opera from Mozart to Puccini
MUHL 388 Opera After 1900
MUHL 390 The German Lied

Recital (12 credits)
MUPG 660 (12) Solo Recital Project 1

Required Courses (27 credits)
MUPG 611 (3) Directed Voice Teaching 1
MUPG 612 (3) Directed Voice Teaching 2
MUPG 620 (4) Performance Tutorial 1
MUPG 621 (4) Performance Tutorial 2
MUPG 622 (4) Performance Tutorial 3
MUPG 650 (3) Voice Lecture - Demonstration
MUPG 693 (3) Vocal Treatises and Methods
MUPG 694 (3) Vocal Physiology for Singers

**Complementary Courses (8 credits)**

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
- 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 of the following:

- MUIN 600 (2) Vocal Repertoire Coaching 1
- MUIN 601 (2) Vocal Repertoire Coaching 2

All courses at the 600 level with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, and MUTH, and MUHL 591D1/D2 Paleography have been approved as electives for M.Mus. students in Performance.

**26.11.17 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:

- MUHL 393 History of Jazz
- MUJZ 440D1/MUJZ 440D2 Advanced Jazz Composition
- MUJZ 461D1/MUJZ 461D2 Advanced Jazz Arranging
- MUJZ 493 Jazz Performance Practice

**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 (22 credits)**

22 credits from one of the following options, A, B, or C:

**Option A - Jazz Performance**

- MUJZ 640 (2) Jazz Composition & Arranging 1
- MUJZ 641 (2) Jazz Composition & Arranging 2
- MUPG 651 (9) Performance/Composition Recital Project
Option B - Jazz Composition and Arranging

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

Option 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

and 18 credits from:
MUPG 651 (9) Performance/Composition Recital Project
MUPG 652 (9) Jazz Ensemble Recital Project

Elective Courses (11 credits)

5 credits of ensemble courses with the prefix MUEN (4 credits must be in JAZZ related ensembles)

6 credits from one of the following options, A, B, or C:

Option A - Jazz Performance
One 3-credit graduate seminar at the 600 level approved by the Department.

And
3 credits of ensemble courses with the prefix MUEN.

Option B - Jazz Composition and Arranging:
Two 3-credit graduate seminars at the 600 level approved by the Department.

Option C - Jazz Orchestral:
One 3-credit graduate seminar at the 600 level approved by the Department.

And
3 credits of ensemble courses with the prefix MUEN.

26.11.18 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 - Intro to Research Methods in Music

3 credits from the following:
MUHL 377 - Baroque Opera (3 credits)
MUHL 380 - Medieval Music (3 credits)
MUHL 381 - Renaissance Music (3 credits)
MUHL 382 - Baroque Music (3 credits)
MUHL 383 - Classical Music (3 credits)
MUHL 395 - Keyboard Literature before 1750 (3 credits)
MUPP 381 - Topics in Performance Practice (3 credits)
MUTH 426 - Topics in Early Music Analysis (3 credits)

Fortepiano students: MUHL 366 - The Era of the Fortepiano (3 credits)

Harpsichord students: 6 credits:
MUPG 272D1/D2 - Continuo (4 credits) and
MUPG 372 D1/D2 - Continuo (2 credits)

Organ/Lute students: MUPG 272D1/D2 - Continuo (4 credits)

Voice students: 6 credits of the following:
MUPG 210 - Italian Diction (or equivalent) (2 credits)
MUPG 211 - French Diction (or equivalent) (2 credits)
MUPG 212 - English Diction (or equivalent) (2 credits)
MUPG 213 - German Diction (or equivalent) (2 credits)

** Thesis Performance (27 credits) **

18 credits:
MUIN 620 (3) Performance Tutorial 1
MUIN 621 (3) Performance Tutorial 2
MUIN 622 (3) Performance Tutorial 3
MUPG 600* (9) Recital Project 1

* Solo Recital only

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 **
MUINS 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 MUO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Description</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 590*</td>
<td>3</td>
<td>Vocal Styles and Conventions</td>
</tr>
<tr>
<td>MUPG 672D1**</td>
<td>1.5</td>
<td>Liturgical Improvisation</td>
</tr>
<tr>
<td>MUPG 672D2**</td>
<td>1.5</td>
<td>Liturgical Improvisation</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

** Organ only

** Complementary Performance (9 credits)**

Instruments:

3 terms of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Description</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</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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</th>
<th>Credit</th>
<th>Description</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>
<th>Course</th>
<th>Credit</th>
<th>Description</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</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN 572</td>
<td>2</td>
<td>Cappella Antica</td>
</tr>
</tbody>
</table>
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:
- MUIN 620 (3) Performance Tutorial 1
- MUIN 621 (3) Performance Tutorial 2
- MUIN 622 (3) Performance 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 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>
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</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 Winds</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>Orchestral Ensembles</td>
</tr>
</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>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>MUEN 599</td>
<td>1</td>
<td>Jazz Studio Orchestra</td>
</tr>
</tbody>
</table>

Winds/Brass:
2 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 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 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 571</td>
<td>1</td>
<td>Contemporary Improvisation 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>
<tr>
<td>MUEN 599</td>
<td>1</td>
<td>Jazz Studio Orchestra</td>
</tr>
</tbody>
</table>

Percussion:
3 credits from (may be taken more than once unless otherwise indicated):

<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>
<tr>
<td>MUEN 568**</td>
<td>1</td>
<td>Multiple Ensemble 1</td>
</tr>
<tr>
<td>MUEN 571</td>
<td>1</td>
<td>Contemporary Improvisation Ensemble</td>
</tr>
</tbody>
</table>
Percussion Ensembles

* MUEN 571 may only be taken once.

Harp:
3 credits from (may be taken more than once unless otherwise indicated):
- MUEN 560** (1) Chamber Music Ensemble
- MUEN 561** (1) 2nd Chamber Music Ensemble
- MUEN 568** (1) Multiple Ensemble 1
- MUEN 571 (1) Contemporary Improvisation Ensemble

* MUEN 571 may only be taken once.

OR

Guitar:
Three terms of:
- MUEN 562 (1) Guitar Ensemble

6 credits from the following:
- MUEN 560** (1) Chamber Music Ensemble
- MUEN 561** (1) 2nd Chamber Music Ensemble
- MUEN 568** (1) Multiple Ensemble 1
- MUEN 571 (1) Contemporary Improvisation Ensemble
- MUPG 666 (3) Fretboard Guitar Project
- MUPG 669 (3) Guitar Pedagogy Project

One 3-credit seminar at the 500 or 600 level with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

** MUEN 560, MUEN 561, and MUEN 568 may be taken more than once.

26.11.1.20 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 - Intro to Research Methods in Music

4 credits of:
- MUPG 210 - Italian Diction (2 credits)
- MUPG 211 - French Diction (2 credits)
- MUPG 212 - English Diction (2 credits)
- MUPG 213 - German Diction (2 credits)

6 credits of:
- MUHL 372 - Solo Song Outside Germany and Austria (3 credits)
- MUHL 377 - Baroque Opera (3 credits)
- MUHL 387 - Opera from Mozart to Puccini (3 credits)
- MUHL 388 - Opera after 1900 (3 credits)
- MUHL 390 - German Lied (3 credits)

** Thesis Performance (27 credits)
18 credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</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>MUPG 653*</td>
<td>9</td>
<td>Recital Project 1</td>
</tr>
<tr>
<td>MUPG 653*</td>
<td>9</td>
<td>Opera Coach Project</td>
</tr>
</tbody>
</table>

* Students may take MUPG 653 or MUPG 600.

9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 601*</td>
<td>9</td>
<td>Recital Project 2</td>
</tr>
<tr>
<td>MUPG 602</td>
<td>6</td>
<td>Recital Project 3</td>
</tr>
<tr>
<td>MUPG 605</td>
<td>3</td>
<td>Recording Project</td>
</tr>
<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>
<tr>
<td>MUPG 653*</td>
<td>9</td>
<td>Opera Coach Project</td>
</tr>
<tr>
<td>MUPG 654</td>
<td>6</td>
<td>Opera Coach Performance</td>
</tr>
</tbody>
</table>

* Students may take either MUPG 653 (if not already taken) or MUPG 601 (if MUPG 600 not already taken).

**Required Courses (3 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 605</td>
<td>0</td>
<td>Graduate Performance Colloquium</td>
</tr>
<tr>
<td>MUPG 687</td>
<td>1</td>
<td>Collaborative Piano Repertoire 1: Song</td>
</tr>
<tr>
<td>MUPG 688</td>
<td>1</td>
<td>Collaborative Piano Repertoire 2: Instrumental</td>
</tr>
<tr>
<td>MUPG 689</td>
<td>1</td>
<td>Collaborative Piano Rep.3: Orch. Redaction, Opera, Oratorio</td>
</tr>
</tbody>
</table>

**Complementary Seminars (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>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>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>
<tr>
<td>MUPP 692</td>
<td>3</td>
<td>Performance Practice Seminar 3</td>
</tr>
<tr>
<td>MUPP 693</td>
<td>3</td>
<td>Performance Practice Seminar 4</td>
</tr>
<tr>
<td>MUPP 694</td>
<td>3</td>
<td>Performance Practice Seminar 5</td>
</tr>
<tr>
<td>MUPP 695</td>
<td>3</td>
<td>Performance Practice Seminar 6</td>
</tr>
</tbody>
</table>

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)**

Two terms of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>MUEN 584</td>
<td>1</td>
<td>Studio Accompanying</td>
</tr>
</tbody>
</table>
4 credits from the following (may be repeated unless otherwise noted):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<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 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 584</td>
<td>1</td>
<td>Studio Accompanying</td>
</tr>
<tr>
<td>MUEN 585</td>
<td>1</td>
<td>Sonata Masterclass</td>
</tr>
<tr>
<td>MUEN 596</td>
<td>2</td>
<td>Opera Repetiteur</td>
</tr>
<tr>
<td>MUPG 670*</td>
<td>2</td>
<td>Advanced Continuo 1</td>
</tr>
<tr>
<td>MUPG 671*</td>
<td>2</td>
<td>Advanced Continuo 2</td>
</tr>
</tbody>
</table>

* MUPG 670 and MUPG 671 may not be repeated.

### 26.11.21 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 Code</th>
<th>Credits</th>
<th>Course Name</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>MUPG 600</td>
<td>9</td>
<td>Recital Project 1</td>
</tr>
</tbody>
</table>

9 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 601*</td>
<td>9</td>
<td>Recital Project 2</td>
</tr>
<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>
</tr>
<tr>
<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>
</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 Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUGS 605</td>
<td>0</td>
<td>Graduate Performance Colloquium</td>
</tr>
<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:
- 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 MUO, MUGS, MUGT, MUHL, MUIM, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

Complementary Performance (6 credits)
6 credits from the following:
- MUEN 571 (1) Contemporary Improvisation Ensemble
- MUPD 580 (2) Piano Pedagogy Practicum
- 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 578 (1) Song Interpretation 1
- MUEN 579 (1) Song Interpretation 2
- MUEN 582 (1) Piano Ensemble Seminar 2
- MUEN 584 (1) Studio Accompanying
- MUEN 585 (1) Sonata Masterclass
- MUEN 588 (1) Multiple Ensemble 2
- MUEN 590 (2) McGill Winds
- MUEN 594 (2) Contemporary Music Ensemble
- MUEN 597 (2) Orchestral Ensembles
- MUEN 688 (2) Multiple Ensembles
26.11.22 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:

MUPD 560 - Introduction to Research Methods in Music
MUPG 272D1/D2 - 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
- MUPG 600 (9) Recital Project 1

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 560* (1) Chamber Music Ensemble
- MUEN 561* (1) 2nd Chamber Music 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) Orchestral Ensembles
- MUHL 591D1** (1.5) Paleography
- MUHL 591D2** (1.5) Paleography
- MUPG 672D1 (1.5) Liturgical Improvisation
- MUPG 672D2 (1.5) Liturgical Improvisation
- MUPG 674 (3) Project in Choral Conducting
- MUPG 679 (3) Liturgical Improvisation 2
- MUTH 602** (3) Keyboard Modal Counterpoint
- MUTH 604** (3) Keyboard Tonal Counterpoint

* May be taken more than once.

** If not taken as a seminar.

**26.11.1.23 Master of Music (M.Mus.); Performance: Conducting (Thesis) (45 credits)**

Orchestral, Wind Band, 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 - Intro to Research Methods in Music
- MUSP 170 - Musicianship (Keyboard) 1
- MUSP 171 - Musicianship (Keyboard) 2

Choral Conducting:

- MUCT 235 - Vocal Techniques
- MUHL 397 - Choral Literature after 1750

Orchestral and Wind Conducting:

4 credits of:

- MUCO 261 - Orchestration 1 (2 credits)
- MUCO 360 - Orchestration 2 (2 credits)
- MUCO 460 - Orchestration 3 (2 credits)

and:

- MUHL 389 - Orchestral Literature or MUHL 398 - Wind Ensemble Literature after 1750

**Thesis Performance (27 credits)**

18 credits:

- MUIN 620 (3) Performance Tutorial 1
- MUIN 621 (3) Performance Tutorial 2
MUIN 622  (3)  Performance 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 603**  (3)  Recital Project 4  
MUPG 605  (3)  Recording Project  
MUPG 606  (3)  Interdisciplinary Project 1

* Solo Recital.  
** Concerto only.

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)

Three terms of:

MUEN 564  (1)  Conducting Workshop

2 credits:

MUPG 646  (1)  Score- and Sight-Reading 1  
MUPG 647  (1)  Score- and Sight-Reading 2

4 credits:

MUPG 580  (2)  Rehearsal Techniques for Conductors 1  
MUPG 680  (2)  Rehearsal Techniques for Conductors 2
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 - Intro to Research Methods in Music
- MUPG 210 - Italian Diction
- MUPG 211 - French Diction
- MUPG 212 - English Diction
- MUPG 213 - German Diction

One of:
- MUHL 372 - Solo Song Outside Germany and Austria
- MUHL 377 - Baroque Opera
- MUHL 387 - Opera from Mozart to Puccini
- MUHL 388 - Opera after 1900
- MUHL 390 - The German Lied

Thesis Performance (27 credits)

9 credits:
- MUIN 620 (3) Performance Tutorial 1
- MUIN 621 (3) Performance Tutorial 2
- MUIN 622 (3) Performance Tutorial 3

And

Opera Performance Thesis (18 credits)

9 credits:
- MUPG 600* (9) Recital Project 1

* Principal Opera Role only; by audition.

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 614 (3) Quick Study

* 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:
- MUPG 600* (9) Recital Project 1

* Solo Recital only.
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 614 (3) Quick Study

* Solo Recital; or Principal Opera Role by audition.
** Solo Recital; or Featured Opera Role by audition.

Required Courses (3 credits)

- MUGS 605 (0) Graduate Performance Colloquium
- MUIN 610 (1) Vocal Coaching 1
- MUIN 611 (1) Vocal Coaching 2
- MUIN 612 (1) Vocal Coaching 3

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 (2) Opera Theatre
2 credits of:

MUEN 696 (2) Opera Theatre

OR

Two terms of:

MUEN 579 (1) Song Interpretation 2

Or

Voice:

6 credits from (may be taken more than once):

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 (2) Opera Theatre

26.11.1.25 Graduate Diploma in Professional Performance (30 credits)

Two full-time terms of residence are required.

Required Courses (15 credits)

MUIN 634 (6) Performance Tutorial 6
MUIN 635 (6) Performance Tutorial 7
MUPG 640 (3) Media Project

Complementary Courses (12 credits)

12 credits from the following:

MUPG 641 (3) Performance Project 1
MUPG 642 (6) Performance Project 2
MUPG 643 (6) Performance Project 3
MUPG 644 (9) Performance Project 4
MUPG 645 (12) Performance Project 5

Elective Course (3 credits)

3 credits of graduate seminar, ensemble, or special project at the 500 or 600 level approved by the Department.

26.11.1.26 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)**

<table>
<thead>
<tr>
<th>Course</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>

12 credits (two years) of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUCO 722D1</td>
<td>(3)</td>
<td>Doctoral Composition Tutorial</td>
</tr>
<tr>
<td>MUCO 722D2</td>
<td>(3)</td>
<td>Doctoral Composition Tutorial</td>
</tr>
</tbody>
</table>

**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.

**26.11.1.27 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 Coordinator, Schulich School of Music or from the Music Graduate Handbook (http://www.mcgill.ca/music/current-students/graduate/graduate-music-handbook).

**Thesis**

**Recitals (36 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUPG 760</td>
<td>(12)</td>
<td>Doctoral Recital 1</td>
</tr>
<tr>
<td>MUPG 767</td>
<td>(12)</td>
<td>Doctoral Recital 2</td>
</tr>
<tr>
<td>MUPG 770</td>
<td>(12)</td>
<td>Doctoral Lecture - Recital Project</td>
</tr>
</tbody>
</table>

**Required Courses (32 credits)**

24-32 credits

<table>
<thead>
<tr>
<th>Course</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>

Six terms of one hour per week of Performance Tutorials:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUIN 720</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 1</td>
</tr>
<tr>
<td>MUIN 721</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 2</td>
</tr>
<tr>
<td>MUIN 722</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 3</td>
</tr>
<tr>
<td>MUIN 723</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 4</td>
</tr>
<tr>
<td>MUIN 724</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 5</td>
</tr>
<tr>
<td>MUIN 725</td>
<td>(4)</td>
<td>D.Mus. Performance Tutorial 6</td>
</tr>
</tbody>
</table>

OR
four terms of 1.5 hours per week of Performance Tutorials:

MUIN 730 (6) D.Mus. Performance Tutorial 8
MUIN 731 (6) D.Mus. Performance Tutorial 9
MUIN 732 (6) D.Mus. Performance Tutorial 10
MUIN 733 (6) D.Mus. Performance Tutorial 11

Voice candidates only: four terms of Vocal Repertoire Coaching:

MUIN 700 (2) Doctoral Repertoire Coaching 1
MUIN 701 (2) Doctoral Repertoire Coaching 2
MUIN 702 (2) Doctoral Repertoire Coaching 3
MUIN 703 (2) Doctoral Repertoire Coaching 4

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.

26.11.1.28 Doctor of Philosophy (Ph.D.); Music — (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 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

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.

One foreign-language reading examination required for students in Composition and Music Education.

Two foreign languages required for students in Musicology and Music Theory. 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

MUGS 701 (0) Comprehensive Examination Part 1
MUGS 702 (0) Comprehensive Examination Part 2

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.

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:

MU CO 7 2 D 1 (3) Doctoral Composition Tutorial
MU CO 7 2 D 2 (3) Doctoral Composition Tutorial

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.

MU GS 7 0 5 (0) Colloquium

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.

26.11.1.29 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)

WM ST 6 0 1 (3) Feminist Theories and Methods
WM ST 6 0 2 (3) Feminist Research Symposium

Comprehensive examination

MUG S 7 0 1 (0) Comprehensive Examination Part 1
MUG S 7 0 2 (0) Comprehensive Examination Part 2
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.

MUGS 705 (0) Colloquium

Complementary Courses (12-27 credits)

27 credits of graduate courses at the 500, 600, or 700 level 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).

27 Faculty of Science

27.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administrative and academic units to provide strategic leadership and vision for graduate teaching, supervision, and research across our over 400 graduate programs. GPS also oversees quality assurance in admissions and registration, the disbursement of graduate fellowships, support for postdoctoral fellows, and facilitates graduate degree completion, including the examination of theses. GPS has partnered with Enrolment Services to manage the admission and registration of graduate students and postdoctoral fellows and to offer streamlined services in a one-stop location at Service Point.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoral training. As Associate Provost (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies, I work closely with the Faculties, central administration, graduate students, professors, researchers, and postdoctoral fellows to provide a supportive, stimulating, and enriching academic environment for all graduate students and postdoctoral fellows.

McGill is ranked as one of Canada's most intensive research universities and currently ranked 21st by QS World University Rankings 2013. We recognize that these successes come not only from our outstanding faculty members, but also from the quality of our graduate students and postdoctoral fellows—a community into which we are very happy to welcome you.

I invite you to join us in advancing this heritage of excellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Provost (Graduate Education)
Dean, Graduate and Postdoctoral Studies

27.2 Graduate and Postdoctoral Studies

27.2.1 Administrative Officers

<table>
<thead>
<tr>
<th>Administrative Officers</th>
<th>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)</td>
<td>Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Heather Goad; B.A.(Br. Col.), Ph.D.(USC)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Laura Nilson; B.A.(Colgate), Ph.D.(Yale)</td>
<td>Associate Dean (Graduate and Postdoctoral Studies)</td>
</tr>
<tr>
<td>Elisa Pylkkkanen; B.A., M.A.(McG.)</td>
<td>Director (Graduate and Postdoctoral Studies)</td>
</tr>
</tbody>
</table>
27.2.2 Location

James Administration Building, Room 400
845 Sherbrooke Street West
Montreal QC H3A 0G4

Telephone: 514-398-3990
Fax: 514-398-6283
Email: servicepoint@mcgill.ca
Website: www.mcgill.ca/gps

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

27.2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GPS) oversees all programs leading to graduate diplomas, certificates, and higher degrees, with the exception of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students' work, and for recommending to Senate those who may receive the degrees, diplomas, and certificates.

27.3 Important Dates 2014–2015

For all dates relating to the academic year, consult www.mcgill.ca/importantdates.

27.4 Graduate Studies at a Glance

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 4: Graduate Studies at a Glance for a list of all graduate departments and degrees currently being offered.

27.5 Program Requirements

27.5.1 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. (except M.Mus. in Sound Recording), M.Sc., M.S.W., M.Sc.A. (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 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 courses passed at any recognized university.

As a rule, no more than one-third of the McGill program formal coursework (not thesis, project, stage, or internship) can be credited with courses from another university.

Non-thesis degrees normally specify the course program which the candidate must follow.

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.

If courses were not used for a degree, they could be credited toward a McGill degree, keeping in mind that a maximum of one-third of the coursework (not thesis, project, stage, internship, and practicum) can be credited. If an exemption is granted, it must be replaced by another graduate course at McGill toward the degree. No double counting is ever allowed. This regulation also applies to doctoral programs.

**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 form, 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/gps/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.

### 27.5.2 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 14.8.3: 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.

**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 the eCalendar under University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: 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 form 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.

27.5.3  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 and contact the relevant department.

27.5.4  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/gpo/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 in graduate programs, diplomas, and certificates must be approved by GPS.

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

27.6  Graduate Admissions and Application Procedures

Please refer to the eCalendar's University Regulations and Resources > Graduate > section 5: 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.
27.7 Fellowships, Awards, and Assistantships

Please refer to the eCalendar’s University Regulations and Resources > Graduate > section 6: Fellowships, Awards, and Assistantships for information and contact information regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

27.8 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.

27.8.1 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.).

27.8.2 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—on the web at www.mcgill.ca/gps/postdocs/fellows/letter). 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 14.8.3: Vacation Policy for Graduate Students and Postdocs and the eCalendar under University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.2.11: 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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities (“Green Book”), available at www.mcgill.ca/secretariat/policies/students.

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 in the Handbook on Student Rights and Responsibilities 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

27.8.3 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

27.8.4 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. 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 the eCalendar under University Regulations and Resources > Graduate > section 2.2.11: 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. GPS has prepared 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. The document is available at www.mcgill.ca/gps/funding/students-postdocs/accepting-maintaining-awards#policies under “Leave Policies - Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

27.8.5 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.

27.9 Graduate Studies Guidelines and Policies

Refer to the eCalendar under University Regulations and Resources > Graduate > section 3: 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

27.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to the eCalendar under University Regulations and Resources > Graduate > section 7: 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

27.11 Academic Programs

The programs and courses in the following sections have been approved for the 2014–2015 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.

27.11.1 Atmospheric and Oceanic Sciences

27.11.1.1 Location

Department of Atmospheric and Oceanic Sciences
Burnside Hall
805 Sherbrooke Street West, Room 945
Montreal QC H3A 0B9
Canada

Telephone: 514-398-3764
Fax: 514-398-6115
Email: gradinfo@meteo.mcgill.ca
Website: www.mcgill.ca/meteo
27.11.1.2 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, and sea ice dynamics, as well as synoptic, mesoscale, and radar and satellite meteorology.

Some McGill faculty members have close ties with other departments, schools, and centres, including the Chemistry, Mathematics and Statistics Departments; the McGill School of Environment; the Global Environmental and Climate Change Centre (GEC3); 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 CLUMEQ and Compute Canada, and the IBM supercomputer at Environment 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 27.11.1.5: 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 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 Canada as research associates or weather forecasters.

section 27.11.1.6: Master of Science (M.Sc.): Atmospheric and Oceanic Sciences (Thesis) — Environment (45 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 discipline 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 27.11.1.7: 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 Canada's numerical weather prediction centre 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 Canada.

27.11.1.3 Atmospheric and Oceanic Sciences Admission Requirements and Application Procedures

27.11.1.3.1 Admission Requirements

Applicants for 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 science, physics, mathematics, engineering, or equivalent.

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 Chair of Admissions, Department of Atmospheric and Oceanic Sciences.

27.11.1.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

27.11.1.3.2.1 Additional Requirements

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

- Acceptance by a research supervisor — required for Ph.D. program
- GRE — required for applicants who have not studied at a Canadian university
27.11.3.3 Application Deadlines

The application deadlines listed here are set by the Atmospheric and Oceanic Sciences 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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<tr>
<th>Canadian</th>
<th>International</th>
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<tbody>
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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 Summer term admission will not be considered.

27.11.4 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)
J.R. Gyakum; B.Sc. (Penn. St.), M.Sc., Ph.D. (MIT)
M.K. Yau; S.B., S.M., Sc.D. (MIT) (NSERC/Hydro-Quebec Industrial Research Chair in Short-term Forecasting of Precipitation)

Associate Professors
P. Bartello; B.Sc., M.Sc., Ph.D. (McG.) (joint appt. with Mathematics)
F. Fabry; B.Sc., M.Sc., Ph.D. (McG.) (joint appt. with McGill School of Environment)
P. Kollias; B.Sc., M.Sc. (Athens), Ph.D. (Miami) (Canada Research Chair, Tier 2)
D. Straub; B.Sc., M.Sc. (SW Louisiana), Ph.D. (Wash.)
B. Tremblay; B.Sc., M.Sc. (Car.), Ph.D. (McG.)

Assistant Professors
Y. Huang; B.Sc., M.Sc. (Peking), Ph.D. (Princ.)
D. Kirshbaum; B.Sc. (Ill.), Ph.D. (Wash.)
T. Merlis; B.Sc. (Col.), Ph.D. (Calif. Tech.)
J. Palter; B.Sc., Ph.D. (Duke)
T. Preston; B.Sc. (Tor.), M.Sc. (W. Ont.), Ph.D. (Br. Col.)
A. Zuend; Ph.D. (ETH Zurich)

Adjunct Professors
A. Dastoor; Ph.D. (Indian IT)
L. Fillion; Ph.D. (McG.)
P. Gauthier; Ph.D. (McG.)
Adjunct Professors

H. Lin; Ph.D.(McG.)
D. Matthews; Ph.D.(Vic., BC)
S.-W. Son; Ph.D.(Penn.)

Associate Member

Michel Bourqui; Ph.D.(ETH Zurich)

27.11.1.5 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)

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<tr>
<th>Course</th>
<th>Credits</th>
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</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 (ATOC 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>
<tr>
<td>ATOC 519*</td>
<td>(3)</td>
<td>Advances in Chemistry of Atmosphere</td>
</tr>
<tr>
<td>ATOC 521</td>
<td>(3)</td>
<td>Cloud Physics</td>
</tr>
<tr>
<td>ATOC 525</td>
<td>(3)</td>
<td>Atmospheric Radiation</td>
</tr>
<tr>
<td>ATOC 530</td>
<td>(3)</td>
<td>Paleoclimatic Dynamics</td>
</tr>
<tr>
<td>ATOC 531</td>
<td>(3)</td>
<td>Dynamics of Current Climates</td>
</tr>
<tr>
<td>ATOC 540</td>
<td>(3)</td>
<td>Synoptic Meteorology 1</td>
</tr>
<tr>
<td>ATOC 541</td>
<td>(3)</td>
<td>Synoptic Meteorology 2</td>
</tr>
<tr>
<td>ATOC 568</td>
<td>(3)</td>
<td>Ocean Physics</td>
</tr>
<tr>
<td>ATOC 626</td>
<td>(3)</td>
<td>Atmospheric/Oceanic Remote Sensing</td>
</tr>
<tr>
<td>ATOC 646</td>
<td>(3)</td>
<td>Mesoscale Meteorology</td>
</tr>
<tr>
<td>CHEM 519*</td>
<td>(3)</td>
<td>Advances in Chemistry of Atmosphere</td>
</tr>
</tbody>
</table>

* 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.

27.11.1.6 Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)

Thesis Courses (24 credits)
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)

<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)

12 credits of Departmental courses chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</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>ATOC 519*</td>
<td>3</td>
<td>Advances in Chemistry of Atmosphere</td>
</tr>
<tr>
<td>ATOC 521</td>
<td>3</td>
<td>Cloud Physics</td>
</tr>
<tr>
<td>ATOC 525</td>
<td>3</td>
<td>Atmospheric Radiation</td>
</tr>
<tr>
<td>ATOC 530</td>
<td>3</td>
<td>Paleoclimatic Dynamics</td>
</tr>
<tr>
<td>ATOC 531</td>
<td>3</td>
<td>Dynamics of Current Climates</td>
</tr>
<tr>
<td>ATOC 540</td>
<td>3</td>
<td>Synoptic Meteorology 1</td>
</tr>
<tr>
<td>ATOC 541</td>
<td>3</td>
<td>Synoptic Meteorology 2</td>
</tr>
<tr>
<td>ATOC 568</td>
<td>3</td>
<td>Ocean Physics</td>
</tr>
<tr>
<td>ATOC 626</td>
<td>3</td>
<td>Atmospheric/Oceanic Remote Sensing</td>
</tr>
<tr>
<td>ATOC 646</td>
<td>3</td>
<td>Mesoscale Meteorology</td>
</tr>
<tr>
<td>CHEM 519*</td>
<td>3</td>
<td>Advances in Chemistry of Atmosphere</td>
</tr>
</tbody>
</table>

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</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 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

### 27.11.1.7 Doctor of Philosophy (Ph.D.); Atmospheric and Oceanic 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
(1 credit)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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</th>
<th>Credits</th>
<th>Description</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.

27.11.2 Biology

27.11.2.1 Location

Department of Biology
Stewart Biological Sciences Building, Room W4/8
1205 Dr. Penfield Avenue
Montreal QC H3A 1B1
Canada

Telephone: 514-398-5478
Fax: 514-398-5069
Email: graduate-admissions.biology@mcgill.ca
Website: http://biology.mcgill.ca

27.11.2.2 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; and Plant Biology. In addition to the regular M.Sc. and Ph.D. programs, the Biology Department offers specialized programs, known as “concentrations” in certain specific areas: 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 the Gault Nature Reserve at Mont St. Hilaire (Quebec), the Morgan Arboretum (Quebec), the Huntsman Marine Science Centre (New Brunswick), the Subarctic Research Laboratory (Quebec), the Bellairs Research Institute (Barbados), the Smithsonian Tropical Research Institute (Panama), and the 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 General Hospital, the Montreal Children's Hospital, and the Royal Victoria Hospital. (Note that MUHC-affiliated hospitals and institutes are scheduled to move to the new Glen site in June 2015. Buildings and room numbers are to be confirmed.)
The Department specifies a minimum level of support for all graduate students. This amount is $15,500 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 27.11.2.5: 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.). Admission is based on an evaluation by the applicant’s potential supervisor, who is the faculty member who will provide supervision and financial support for the student’s research, and by the Biology Graduate Training Committee. Prospective graduate students are encouraged to contact faculty members with whom they wish to study before applying for admission.

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 27.11.2.6: 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 27.11.2.7: 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 enroll 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 on 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 27.11.2.8: 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 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 M.Sc. level, students successfully completing the Bioinformatics concentration will be fluent in the concepts, language, approaches, and limitations of the field.

section 27.11.2.9: Doctor of Philosophy (Ph.D.): Biology

The typical graduate student in this program has a strong background knowledge in cell and molecular biology, biochemistry, 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.). Admission is based on an evaluation by the applicant’s potential supervisor, who is the faculty member who will provide supervision and financial support for the student’s research, and by the Biology Graduate Training Committee. Prospective graduate students are encouraged to contact faculty members with whom they wish to study before applying for admission.
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.

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 in: Agricultural and Environmental Sciences (Bioresource Engineering, Entomology, Microbiology, Plant Science, Parasitology, Renewable Resources), Arts (Anthropology, Geography, Philosophy, Sociology), Law, Medicine (Epidemiology and Experimental Medicine), and Science (Atmospheric and Oceanic Sciences, Biology, Earth and Planetary Sciences, Geography).

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.

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 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.

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 550 on the paper-based TOEFL or 86 on the Internet-based test 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 staff members with whom they wish to study before applying for admission.
27.11.23.2 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 section 5.3: Application Procedures for detailed application procedures.

27.11.23.2.1 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

27.11.23.3 Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: March 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Same as Canadian/International</td>
</tr>
<tr>
<td>Winter: Oct. 15</td>
<td>Winter: Aug. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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. All inquiries pertaining to admission procedures should be directed to the Graduate Admissions Secretary.

**Note:** Applications for Summer term admission will not be considered.

27.11.2.4 Biology Faculty

**Chair**

Graham A.C. Bell

**Graduate Program Director**

Frédéric Guichard (Acting)

**Emeritus Professors**

A. Howard Bussey; B.Sc., Ph.D.(Brist.), F.R.S.C.

Robert L. Carroll; B.S.(Mich.), M.A., Ph.D.(Harv.), F.R.S.C.

Ronald Chase; A.B.(Stan.), Ph.D.(MIT)

Jacob Kalff; M.S.A.(Tor.), Ph.D.(Ind.)

Donald L. Kramer; B.Sc.(Boston Coll.), Ph.D.(Br. Col.)

John B. Lewis; B.Sc., M.Sc., Ph.D.(McG.)

Barid B. Mukherjee; B.Sc., M.Sc.(Cal.), M.Sc.(BYU), Ph.D.(Uta)

Gerald S. Pollack; M.A., Ph.D.(Princ.)

**Professors**

Graham A.C. Bell; B.A., D.Phil.(Oxf.), F.R.S.C. (*James McGill Professor*)

Gregory G. Brown; B.Sc.(Notre Dame), Ph.D.(CUNY)

Lauren Chapman; B.Sc.(Alta.), Ph.D.(McG.) (*Canada Research Chair in Respiratory Ecology and Aquatic Conservation* (on sabbatical Fall 2014)

Rajinder S. Dhindsa; B.Sc., M.Sc.(Punj.), Ph.D.(Wash.)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.) (*Canada Research Chair in Biodiversity Science*)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva) (*Strathcona Chair in Zoology; Robert Archibald & Catherine Louise Campbell Chair in Developmental Biology*)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT) (*James McGill Professor* (*Associate Member in Anatomy and Cell Biology* (*Associate Member in the Goodman Cancer Centre*)))
Professors

Martin J. Lechowicz; B.A. (Mich. St.), M.S., Ph.D. (Wisc.)
Louis Lefebvre; B.Sc., M.A., Ph.D. (Montr.)
Catherine Potvin; B.Sc., M.Sc. (Montr.), Ph.D. (Duke) (on sabbatical)
Neil M. Price; B.Sc. (New Br.), Ph.D. (Br. Col.)
Daniel J. Schoen; B.Sc., M.Sc. (Mich.), Ph.D. (Calif.) (Macdonald Professor of Botany)

Associate Professors

Ehab Abouheif; M.Sc. (C'dia), Ph.D. (Duke)
Gary Brouhard; M.S.E., Ph.D. (Mich.) (Associate Member in Physics)
Thomas E. Bureau; B.Sc. (Calif.), Ph.D. (Texas)
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.)
François Fagotto; Ph.D. (Neuchâtel) (on sabbatical)
Gregor Fussmann; Dipl. (Berlin), Ph.D. (Max Planck Institute)
Irene Gregory-Eaves; B.Sc. (Vic., BC), M.Sc., Ph.D. (Qu.)
Frédéric Guichard; B.Sc. (Montr.), Ph.D. (Laval)
Paul Harrison; B.Sc. (NUI), Ph.D. (Lond.)
Andrew Hendry; B.Sc. (Vic., BC), M.Sc., Ph.D. (Wash.) (joint appt. with Redpath Museum)
Rudiger Krahe; Dipl. (Alexander U.), Ph.D. (Humboldt)
Brian Leung; B.Sc. (Br. Col.), Ph.D. (Car.)
Nam-Sung Moon; B.Sc., Ph.D. (McG.)
Laura Nilson; B.A. (Colgate), Ph.D. (Yale)
Simon Reader; B.A. (Colgate), Ph.D. (Yale)
Richard Roy; B.Sc. (Bishop's), Ph.D. (Laval)
Frieder Schoeck; Dipl. (Erhangen), Ph.D. (Max Planck Institute)
Jacalyn Vogel; M.Sc. (E. Ill.), Ph.D. (Kansas)
Tamara Western; B.Sc. (Dal.), Ph.D. (Br. Col.) (Associate Dean (Academic), Faculty of Science)
Monique Zetka; B.Sc., Ph.D. (Br. Col.)
Hugo Zheng; M.Sc. (Helsinki), Ph.D. (Oxf. Brookes)

Assistant Professors

Jonathan Davies; M.Sc. (Cape Town), Ph.D. (Imperial Coll., Lond.)
Michael Hendricks; B.A. (Bowdoin), Ph.D. (Sing.)
Rodrigo Reyes Lamothe; Lic. (UNAM), M.Sc. (C'dia), D.Phil. (Oxf.)
Jon Sakata; B.A. (Cornell), Ph.D. (Texas-Austin, Institute for Neuroscience)
Alanna Watt; B.Sc. (C'dia), Ph.D. (Brandeis)
Sarah Woolley; B.Sc. (Duke), Ph.D. (Texas-Austin)

Associate Members

Anatomy and Cell Biology: Craig Mandato
Anthropology: Colin Chapman
Biochemistry: Maxime Bouchard
Centre for Research in Neuroscience: Sal Carbonetto, Yong Rao, Donald Van Meyel
Associate Members

*MCH*: Feige Kaplan, Rima Rozen

*Medical Genetics, Chair*: David Rosenblatt

*MNI*: Kenneth Hastings, Stefano Stifani

*Physics*: Paul Francois

*Redpath Museum*: Rowan Barrett, David Green, Hans Larsson, Virginie Millien, Anthony Ricciardi

*RVH*: Hugh J. Clarke, Daniel Dufort, Teruko Taketo

Adjunct Professors

*BELLUS Health Inc.*: Francesco Bellini

*Centre National de la Recherche Scientifique (CNRS)*: Michel Loreau

*IRCM*: Frédéric Charron, David Hipfner, Artur Kania, Marie Kmita

*NRC Lab*: Malcolm S. Whiteway

*STRI*: Rachel Collin, Hector Guzman, Haris Lessios, William Owen McMillan, Mark Torchin

*Univ. de Montréal*: Pierre Drapeau

27.11.2.5 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.

27.11.2.6 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>
<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>

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>
</tr>
<tr>
<td>ENVR 652</td>
<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>
</tbody>
</table>
or another graduate course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

### 27.11.2.7 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>
<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>

#### 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.

### 27.11.2.8 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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</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>

#### 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>
</tr>
</tbody>
</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>

### 27.11.2.9 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>
<td>0</td>
<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.

**27.11.2.10 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>
<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>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 Course (3 credits)**

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>
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<td>ENVR 544</td>
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</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 at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

**27.11.2.11 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)**

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<td>BIOL 700</td>
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</tr>
<tr>
<td>BIOL 702</td>
<td>6</td>
<td>Ph.D. Seminar</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.

27.11.12 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>
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<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>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINF 621</td>
<td>(3)</td>
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<td>Bioinformatics: Proteomics</td>
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<tr>
<td>BTEC 555</td>
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<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>

27.11.3 Chemistry

27.11.3.1 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.chemistry.mcgill.ca

27.11.3.2 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 at www.chemistry.mcgill.ca.

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 pharmacologically 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 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 Biosensors and Biorecognition, the Centre for the Physics of Materials, and the Centre for Bone and Periodontal Research. Synthetic approaches to new materials include research in dendrimers, polynucleic 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 specialty organic chemical and materials.

section 27.11.3.5: Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Please consult the Department for more information about this program.

section 27.11.3.6: Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits)

This program is currently not offered.

section 27.11.3.7: Doctor of Philosophy (Ph.D.); Chemistry

Please consult the Department for more information about this program.

section 27.11.3.8: Doctor of Philosophy (Ph.D.); Chemistry — Chemical Biology

This program is currently not offered.
27.11.3.3 Chemistry Admission Requirements and Application Procedures

27.11.3.3.1 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 CGPA 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.

27.11.3.3.2 Application Procedures

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

See section 5.3: 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.

27.11.3.3.2.1 Additional Requirements

- GRE – may be required for international degrees

27.11.3.3.3 Application Deadlines

The application deadlines listed here are set by the Chemistry 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></th>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: June 1</td>
<td>Fall: March 15</td>
<td>Fall: June 1</td>
<td></td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: N/A</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.

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.

27.11.3.4 Chemistry Faculty

Chair

M.J. Damha

Director of Graduate Studies

N. Moitessier

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.F.R. Gilson; B.Sc.(Univ. Coll., Lond.), M.Sc., Ph.D.(Br. Col.)
D.G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), F.C.I.C.
J.F. Harrod; B.Sc., Ph.D.(Birm.), F.R.S.C.
A.S. Hay; B.Sc.(Alta.), Ph.D.(Ill.), F.R.S.
R.H. Marchessault; B.Sc.(Montr.), Ph.D.(McG.), F.C.I.C., F.R.S.C.
M.A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.), F.C.I.C.
### Professors

- B.A. Arndtsen; B.A.(Car.), Ph.D.(Stan.)
- D.S. Bohle; B.A.(Reed), M.Phil., Ph.D.(Auck.)
- I.S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C.
- M.J. Damha; B.Sc., Ph.D.(McG.), F.C.I.C.
- 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)
- E.D. Salin; B.Sc.(Calif.), Ph.D.(Ore.), F.C.I.C.
- 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.)

### Associate Professors

- M.P. Andrews; B.Sc., M.Sc., Ph.D.(Tor.)
- P. Ariya; B.Sc., Ph.D.(York)
- K. Auclair; B.Sc.(UQAC), Ph.D.(Alta.)
- C.J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)
- G. Cosa; B.Sc.(Argentina), Ph.D.(Ott.)
- W.C. Galley; B.Sc.(McG.), Ph.D.(Calif.)
- J.L. Gleason; B.Sc.(McG.), Ph.D.(Virg.)
- A. Kakkar; B.Sc., M.Sc.(Chan. U., India), Ph.D.(Wat.)
- P. Kambhampati; B.A.(Car. Coll.), Ph.D.(Texas)
- A. Mittermaier; B.Sc.(Guelph), Ph.D.(Tor.)
- N. Moitessier; M.Sc., Ph.D.(Nancy)
- J.F. Power; B.Sc., Ph.D.(C’dia)
- L. Reven; B.A.(Car.), Ph.D.(Ill.)
- B. Siwick; B.A.Sc. Eng. Sci., M.Sc., Ph.D.(Tor.)
- P. Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.)

### Assistant Professors

- A.S. Blum; B.A.(Princ.), Ph.D.(Wash.)
- T. Friš i ; B.Sc.(Zagreb), Ph.D.(Iowa)
- J. P. Lumb; B.Sc.(Cornell), Ph.D.(Calif., Berk.)
- A. Moores; B.Sc., Ph.D.(École Polytechnique, Paris)

### Associate Members

- J.A. Finch (*Mining, Metals and Materials Engineering*)
- P. Grütter (*Physics*)
- O.A. Mamer (*University Clinic, RVH*)
- R. Schirmacher (*MNI*)
Adjunct Professors


27.11.3.5 Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Thesis Courses
(24-31 credits)
At least 24 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 691</td>
<td>(3)</td>
<td>M.Sc. Thesis Research 1</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>(6)</td>
<td>M.Sc. Thesis Research 2</td>
</tr>
<tr>
<td>CHEM 693</td>
<td>(9)</td>
<td>M.Sc. Thesis Research 3</td>
</tr>
<tr>
<td>CHEM 694</td>
<td>(12)</td>
<td>M.Sc. Thesis Research 4</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>(15)</td>
<td>M.Sc. Thesis Research 5</td>
</tr>
<tr>
<td>CHEM 697</td>
<td>(9)</td>
<td>M.Sc. Thesis Research 7</td>
</tr>
<tr>
<td>CHEM 698</td>
<td>(12)</td>
<td>M.Sc. Thesis Research 8</td>
</tr>
</tbody>
</table>

Required Courses
(5 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 650</td>
<td>(1)</td>
<td>Seminars in Chemistry 1</td>
</tr>
<tr>
<td>CHEM 651</td>
<td>(1)</td>
<td>Seminars in Chemistry 2</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>(3)</td>
<td>Assessment</td>
</tr>
</tbody>
</table>

Complementary Courses
(9-16 credits)
Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.

27.11.3.6 Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits)

**This program is currently not offered.**

Thesis Courses (24 credits)
(minimum 24 credits)
At least 24 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 691</td>
<td>(3)</td>
<td>M.Sc. Thesis Research 1</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>(6)</td>
<td>M.Sc. Thesis Research 2</td>
</tr>
<tr>
<td>CHEM 693</td>
<td>(9)</td>
<td>M.Sc. Thesis Research 3</td>
</tr>
<tr>
<td>CHEM 694</td>
<td>(12)</td>
<td>M.Sc. Thesis Research 4</td>
</tr>
<tr>
<td>CHEM 695</td>
<td>(15)</td>
<td>M.Sc. Thesis Research 5</td>
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<tr>
<td>CHEM 697</td>
<td>(9)</td>
<td>M.Sc. Thesis Research 7</td>
</tr>
<tr>
<td>CHEM 698</td>
<td>(12)</td>
<td>M.Sc. Thesis Research 8</td>
</tr>
</tbody>
</table>

Required Courses (5 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 650</td>
<td>(1)</td>
<td>Seminars in Chemistry 1</td>
</tr>
<tr>
<td>CHEM 651</td>
<td>(1)</td>
<td>Seminars in Chemistry 2</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>(3)</td>
<td>Assessment</td>
</tr>
</tbody>
</table>
Complementary Courses (11 credits)
(minimum 11 credits)

2 credits, two of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</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>

Students will take at least three courses from the following list, including at least 3 credits from the first two courses listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<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>CHEM 502</td>
<td>(3)</td>
<td>Advanced Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 503</td>
<td>(3)</td>
<td>Drug Design and Development 1</td>
</tr>
<tr>
<td>CHEM 504</td>
<td>(3)</td>
<td>Drug Design and Development 2</td>
</tr>
<tr>
<td>CHEM 514</td>
<td>(3)</td>
<td>Biophysical Chemistry</td>
</tr>
<tr>
<td>CHEM 522</td>
<td>(3)</td>
<td>Stereochemistry</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>PHAR 503</td>
<td>(3)</td>
<td>Drug Discovery and Development 1</td>
</tr>
<tr>
<td>PHAR 504</td>
<td>(3)</td>
<td>Drug Discovery and Development 2</td>
</tr>
<tr>
<td>PHAR 562</td>
<td>(3)</td>
<td>General Pharmacology 1</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>(3)</td>
<td>General Pharmacology 2</td>
</tr>
<tr>
<td>PHAR 707</td>
<td>(3)</td>
<td>Topics in Pharmacology 6</td>
</tr>
</tbody>
</table>

The remaining credits may be graduate-level courses approved by the Department.

27.11.3.7 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 650</td>
<td>(1)</td>
<td>Seminars in Chemistry 1</td>
</tr>
<tr>
<td>CHEM 651</td>
<td>(1)</td>
<td>Seminars in Chemistry 2</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>(3)</td>
<td>Assessment</td>
</tr>
<tr>
<td>CHEM 701</td>
<td>(0)</td>
<td>Comprehensive Examination 1</td>
</tr>
<tr>
<td>CHEM 702</td>
<td>(0)</td>
<td>Comprehensive Examination 2</td>
</tr>
</tbody>
</table>

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.

**27.11.3.8 Doctor of Philosophy (Ph.D.); Chemistry — Chemical Biology**

**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**

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>1</td>
</tr>
<tr>
<td>BIOC 611</td>
<td>Seminars in Chemical Biology 3</td>
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<tr>
<td>BIOC 689</td>
<td>Seminars in Chemical Biology 2</td>
<td>1</td>
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<td>Seminars in Chemical Biology 4</td>
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<td>CHEM 650</td>
<td>Seminars in Chemistry 1</td>
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</tr>
<tr>
<td>CHEM 651</td>
<td>Seminars in Chemistry 2</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 688</td>
<td>Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 701</td>
<td>Comprehensive Examination 1</td>
<td>0</td>
</tr>
<tr>
<td>CHEM 702</td>
<td>Comprehensive Examination 2</td>
<td>0</td>
</tr>
</tbody>
</table>

**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. At least three courses must be from the following list, including at least 3 credits from the first two courses listed below.

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<td>3</td>
</tr>
<tr>
<td>CHEM 502</td>
<td>Advanced Bio-Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 503</td>
<td>Drug Design and Development 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 504</td>
<td>Drug Design and Development 2</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 514</td>
<td>Biophysical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 522</td>
<td>Stereochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 591</td>
<td>Bioinorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 621</td>
<td>Reaction Mechanisms in Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 629</td>
<td>Organic Synthesis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 655</td>
<td>Advanced NMR Spectroscopy</td>
<td>4</td>
</tr>
<tr>
<td>PHAR 503</td>
<td>Drug Discovery and Development 1</td>
<td>3</td>
</tr>
<tr>
<td>PHAR 504</td>
<td>Drug Discovery and Development 2</td>
<td>3</td>
</tr>
<tr>
<td>PHAR 562</td>
<td>General Pharmacology 1</td>
<td>3</td>
</tr>
<tr>
<td>PHAR 563</td>
<td>General Pharmacology 2</td>
<td>3</td>
</tr>
<tr>
<td>PHAR 707</td>
<td>Topics in Pharmacology 6</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining credits may be 500-, 600-, or 700-level courses approved by the Department.
27.11.4 Computer Science

27.11.4.1 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
Email: grad.cs@mcgill.ca
Website: www.cs.mcgill.ca

27.11.4.2 About Computer Science

The School of Computer Science is one of the leading teaching and research centres for computer science in Canada. We offer a Ph.D. program and several M.Sc. programs. 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, modeling and simulations, networks, software engineering;
- **Applications**: bioinformatics, machine learning, robotics, computer animation, graphics, and vision.

All students must consult the graduate program website www.cs.mcgill.ca, where up-to-date information about the graduate programs is posted. Any questions concerning programs should be addressed to the Graduate Program Coordinator.

section 27.11.4.5: 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 27.11.4.6: 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 27.11.4.7: Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and 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 27.11.4.8: 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 27.11.4.9: 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 27.11.4.10: 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.
27.11.4.3 Computer Science Admission Requirements and Application Procedures

27.11.4.3.1 Admission Requirements

**Master’s (M.Sc.)**

The minimum requirement for admission is a bachelor’s degree (cumulative grade point average (CGPA) of 3.2 or better, or equivalent) with the coursework in Computer Science as listed on our website at [www.cs.mcgill.ca/prospective-students/graduate/applying/msc_applicants](http://www.cs.mcgill.ca/prospective-students/graduate/applying/msc_applicants).

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, normally 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.

27.11.4.3.2 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 section 5.3: Application Procedures for detailed application procedures.

27.11.4.3.2.1 Additional Requirements

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

- Curriculum Vitae – required for Ph.D. program
- Statement of Purpose – required for Ph.D. program
- Graduate Record Examination (GRE General Test) – required for degrees from outside Canada. Recommended for Ph.D. program.

27.11.4.3.3 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

<table>
<thead>
<tr>
<th>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
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</thead>
<tbody>
<tr>
<td>Fall: March 1</td>
<td>Fall: March 1</td>
<td>Fall: March 1</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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. For further details on our admission requirements, please visit our website at [www.cs.mcgill.ca/prospective-students/graduate/applying/applying](http://www.cs.mcgill.ca/prospective-students/graduate/applying/applying).

Scholarship Deadlines: January 1 for applicants who wish to be considered for scholarship awards; otherwise, March 1 for admission to the Fall term.

27.11.4.4 Computer Science Faculty

**Director**

Gregory Dudek

**Emeritus Professors**

R. De Mori; Ph.D. (Politecnico di Torino)
T.H. Merrett; B.Sc. (Qu.), D.Phil. (Oxf.)
M.M. Newborn; B.E.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.)
G.T. Toussaint; B.Sc. (Tulsa), Ph.D. (Br. Col.)

**Professors**

D. Avis; B.Sc. (Wat.), Ph.D. (Stan.)
L. Devroye; M.S. (Louvain), Ph.D. (Texas) (James McGill Professor)
Professors
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)
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)
D. Thérien; B.Sc.(Montr.), M.Sc., Ph.D.(Wat.) (James McGill Professor)

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.)
M.T. Hallett; B.Sc.(Qu.), Ph.D.(Vic., BC)
B. Kemme; B.Sc., M.Sc.(Erlangen-Nuremberg, Germany), Ph.D.(ETH, Zurich)
J. Kienzle; Eng.Dip., Ph.D.(Swiss Fed. IT)
M. Langer; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(McG.)
X. Liu; B.Sc., M.Sc.(Tsinghua), Ph.D.(Ill.)
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)
D. Precup; B.Sc.(Tech. U. of Cluj-Napoca), M.Sc., Ph.D.(Mass.)
M. Robillard; B.Eng.(École Poly., Montr.), M.Sc., Ph.D.(Br. Col.)
C. Tropper; B.Sc.(McG.), Ph.D.(Brooklyn Poly.)
C. Verbrugge; B.A.(Qu.), Ph.D.(McG.)
A. Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT)

Assistant Professors
H. Hatami; B.Sc.(Sharif), M.Sc., Ph.D.(Tor.)
W. He; B.Sc.(Harbin), M.Sc.(Tsinghua), M.Eng., Ph.D.(Ill.)
P. Kry; B.Sc.(Wat.), M.Sc., Ph.D.(Br. Col.)
D. Ruths; B.Sc., M.Sc., Ph.D.(Rice)
J. Waldispohl; B.Sc.(Nice & Sophia-Antipolis), M.Sc.(Paris VII), Ph.D.(École Poly., France)

Faculty Lecturer
J. Vybihal; B.Sc., M.Sc.(McG.)

Associate Members
D.J. Levitin (Psychology)
D. Schlimm (Philosophy)
R. Sengupta (Geography)
B.F. Shepherd (Mathematics & Statistics)
T.R. Shultz (Psychology)
R. Sieber (Geography)


Adjunct Professors


27.11.4.5 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.

27.11.4.6 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.

27.11.4.7 Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits)

Thesis Courses (24 credits)
24 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
One credit selected as follows:

- COMP 669D1  
(.5) Computational Science Engineering Seminar
- COMP 669D2  
(.5) Computational Science Engineering Seminar

and

- COMP 601  
(2) Thesis Literature Review

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:

- CIVE 602  
(4) Finite Element Analysis
- COMP 522  
(4) Modelling and Simulation
- COMP 540  
(3) Matrix Computations
- COMP 566  
(3) Discrete Optimization 1
- MATH 578  
(4) Numerical Analysis 1
- MATH 579  
(4) Numerical Differential Equations

List B: Application and Specialized Methods Courses:

- ATOC 512  
(3) Atmospheric and Oceanic Dynamics
- ATOC 513  
(3) Waves and Stability
- ATOC 515  
(3) Turbulence in Atmosphere and Oceans
- CIVE 572  
(3) Computational Hydraulics
- CIVE 603  
(4) Structural Dynamics
### 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>Description</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.

### 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**

- COMP 700 (0) Ph.D. Comprehensive Examination
- COMP 701 (3) Thesis Proposal and Area Examination

**Complementary Courses**

18-24 credits selected from:

### Category A: Theory and Applications

- COMP 523 (3) Language-based Security
- COMP 524 (3) Theoretical Foundations of Programming Languages
- COMP 525 (3) Formal Verification
- COMP 531 (3) Advanced Theory of Computation
- COMP 540 (3) Matrix Computations
- COMP 547 (4) Cryptography and Data Security
- COMP 552 (4) Combinatorial Optimization
- COMP 554 (4) Approximation Algorithms
- COMP 560 (3) Graph Algorithms and Applications
- COMP 561 (4) Computational Biology Methods and Research
- COMP 564 (3) Computational Gene Regulation
- COMP 566 (3) Discrete Optimization 1
- COMP 567 (3) Discrete Optimization 2
- COMP 598 (3) Topics in Computer Science 1
- COMP 599 (3) Topics in Computer Science 2
- COMP 610 (4) Information Structures 1
- COMP 618 (3) Bioinformatics: Functional Genomics
- COMP 627 (4) Theoretical Programming Languages
- COMP 642 (4) Numerical Estimation Methods
- COMP 647 (4) Advanced Cryptography
- COMP 649 (4) Quantum Cryptography
- COMP 680 (4) Mining Biological Sequences
- COMP 690 (4) Probabilistic Analysis of Algorithms
- COMP 760 (4) Advanced Topics Theory 1
- COMP 761 (4) Advanced Topics Theory 2

### Category B: Systems and Applications

- COMP 512 (4) Distributed Systems
- COMP 520 (4) Compiler Design
- COMP 521 (4) Modern Computer Games
- COMP 522 (4) Modelling and Simulation
- COMP 526 (3) Probabilistic Reasoning and AI
27.11.4.10 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

<table>
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<th>Course Code</th>
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<tr>
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<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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<tr>
<td>COMP 700</td>
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<td>Ph.D. Comprehensive Examination</td>
</tr>
<tr>
<td>COMP 701</td>
<td>3</td>
<td>Thesis Proposal and Area Examination</td>
</tr>
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</table>

Complementary Courses
Two courses chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</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. 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.

27.11.5 Earth and Planetary Sciences

27.11.5.1 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

27.11.5.2 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: it 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 fixation of mercury in marine sediments; the nature of changes in atmospheric chemistry in the early and late Precambrian; mechanisms of faulting; the evolution of topography during orogenesis; wetland hydrogeology; and planetary-scale ocean biogeochemistry 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.

Biomineralization
Investigation of process occurring at the interface between inorganic and organic phases leading to the nucleation and growth of crystals in both natural and synthetic systems; pathogenic mineralization and calcification in mammalian cells and tissues; investigating biomarkers as signatures of ancient biological activity in terrestrial and extraterrestrial materials.

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.

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.

Mineralogy
Chemistry and crystallography of carbonate minerals. Experimental investigations of the effect of environmental factors (e.g., solution composition and temperature) on the morphology and composition of calcite.

Oceanic Biogeochemistry
Links between the marine ecosystem and climate through observations of the modern ocean, simulations of ocean biogeochemistry with computer models, and sedimentary records of past climate change.
Seismology

Tectonics
The interactions of climate and tectonics, especially in regard to the formation and degradation of orogens. Archean orogenic processes. Fluid flow in faults, granular flow in faults, and catastrophic structural/geochemical events in faults.

Isotopic Geochemistry and Sedimentary Geology
Sedimentology, stratigraphy, and isotope geochemistry as guides to reconstructing ancient environments. Reconstruction of paleoenvironmental change during the Neoproterozoic to early Phanerozoic. Relationships between tectonics (i.e., supercontinental break-up and assembly), seawater chemistry and ocean redox, severe climatic fluctuations (including snowball Earth), and the origin and diversification of animals. Recovery of the geochemical memory of large-scale Earth system processes (e.g., microbial control of the global S cycle; anthropogenic manipulation of atmospheric OH abundances). Investigations of microbial biogeochemistry under an anoxic Archean atmosphere, to constrain mass fluxes in the Phanerozoic geologic sulfur cycle, and to track processes that control the pollution-cleansing oxidants (OH, O3) in the modern atmosphere.

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.

section 27.11.5.5: 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 and a comprehensive oral examination in the Ph.D. 2 year.

section 27.11.5.6: 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 27.11.5.7: 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 27.11.5.8: 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 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.

27.11.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures
27.11.5.3.1 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.

27.11.5.3.2 Application Procedures
Applicants who want to be considered for entrance awards, or who require financial assistance, should apply before the application deadlines. There are no special forms required to apply for financial aid from the Department, as all applicants will be considered for the awards for which they are eligible.
Students should first contact potential supervisors within the Department of Earth and Planetary Sciences (www.mcgill.ca/eps/people/faculty) 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 application for admission.

McGill’s online application form for graduate program candidates is available at www.mcgill.ca/gradapplicants/apply. See section 5.3: Application Procedures for detailed application procedures.

27.11.5.3 Application Deadlines

The application deadlines listed here 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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<tr>
<th>Canadian</th>
<th>International</th>
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<td>Fall: Feb. 1</td>
<td>Fall: Feb. 1</td>
<td>Fall: Feb. 1</td>
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<tr>
<td>Winter: Sept. 15</td>
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<td>Winter: Sept. 15</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

27.11.5.4 Earth and Planetary Sciences Faculty

Chair
Alfonso Mucci

Emeritus Professors
Jafar Arkani-Hamed; B.Eng.(Tehran), Ph.D.(MIT)
Wallace H. MacLean; B.Geol.Eng.(Colo. Sch. of Mines), M.Sc.(A.), Ph.D.(McG.)
Robert F. Martin; B.Sc.(Ott.), M.S.(Penn. St.), Ph.D.(Stan.)
Colin W. Stearn; B.Sc.(McM.), M.S., Ph.D.(Yale), F.R.S.C.

Professors
Don Baker; A.B.(Chic.), Ph.D.(Penn. St.)
Donald Francis; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(MIT) (Dawson Professor of Geology)
Andrew J. Hynes; B.Sc.(Tor.), Ph.D.(Cant.) (William E. Logan Professor of Geology)
Olivia G. Jensen; B.Sc., M.Sc., Ph.D.(Br. Col.)
Alfonso Mucci; B.Sc., M.Sc.(Montr.), Ph.D.(Miami)
John Stix; A.B.(Dart.), M.Sc., Ph.D.(Tor.)
A.E. (Willy) Williams-Jones; B.Sc., M.Sc.(Natal), Ph.D.(Qu.)

Associate Professors
Galen Halverson; B.A.(Mont.), M.A., Ph.D.(Harv.) (T.H. Clark Chair in Sedimentary and Petroleum Geology)
Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)
Jeanne Paquette; B.Sc., M.Sc.(McG.), Ph.D.(Stonybrook)
Boswell Wing; A.B.(Harv.), M.A., Ph.D.(Johns Hop.)

Assistant Professors
Kim Berlo; Propadeuse, Doctorandus(Utrecht), Ph.D.(Brist.)
Eric Galbraith; B.Sc.(McG.), Ph.D.(Br. Col.)
Rebecca Harrington; B.S., M.S., Ph.D.(Calif.-LA)
Yajing Liu; B.Sc.(Peking), Ph.D.(Harv.)
Christie Rowe; A.B.(Smith), Ph.D.(Calif.-Santa Cruz)
Vincent van Hinsberg; Propadeuse, Doctorandus(Utrecht), Ph.D.(Brist.)
Faculty Lecturer
W. Minarik; B.A.(St. Olaf), M.Sc.(Wash.), Ph.D.(Rensselaer Poly.)

Adjunct Professors
M. Riedel, H. Short, B. Sundby, W. Trzcienski

Retired Professor
R. Hesse

27.11.5.5 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.

27.11.5.6 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
- EPSC 666 (3) Current Issues in Geosciences

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.
27.11.5.7 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSC 700</td>
<td>0</td>
<td>Preliminary Doctoral Examination</td>
</tr>
</tbody>
</table>

**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.

27.11.5.8 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 610</td>
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<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>
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<td>Environmental Seminar 2</td>
</tr>
<tr>
<td>ENVR 652</td>
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<td>Environmental Seminar 3</td>
</tr>
<tr>
<td>EPSC 700</td>
<td>0</td>
<td>Preliminary Doctoral Examination</td>
</tr>
</tbody>
</table>

**Complementary Courses**

* Two to six courses (6-18 credits)

One course chosen from 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>
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<td>Sustainable Landscapes</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.
27.11.6 Geography

27.11.6.1 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

27.11.6.2 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 Human Development; Geographic Information Systems and Remote Sensing; Land Surface Processes; Earth Systems Science; and Environmental Management. Geography houses the Hinchcliff Geographic Information Centre, maintains the McGill High Arctic Geographic Information Station, and has strong ties with McGill’s School of Environment and the Centre for Climate and Global Change Research. 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.

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.

Centre for Climate and Global Change Research

The Department of Geography, with the McGill Departments of Atmospheric and Oceanic Sciences, Economics, Natural Resource Sciences, and several departments from the Université du Québec à Montréal and Université de Montréal, developed a collaborative research centre that examines climate and global change. There are graduate opportunities through this centre.

For more information contact Professor Nigel Roulet, Director, Centre for Climate and Global Change, McGill University.

Being both a natural and a social science, geography provides a unique opportunity to obtain a broad 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, and policy analysts, 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 (www.geog.mcgill.ca/other/jobsingeog.html) 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 (30 credits), required (3 credits), and complementary (12 credits) 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 think fit, and submit a thesis in an appropriate area of geographical inquiry approved by the adviser.

Master of Arts (M.A.) Programs in Geography

Detailed program requirements for the following M.A. programs are found in the eCalendar under Faculties & Schools > Faculty of Arts > Graduate > Academic Programs > Geography.

section 15.11.9.5: 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 (30 credits), required (3 credits), and complementary (12 credits) 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.
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 (30 credits); required International Development and Geography courses (6 credits); and complementary courses (9 credits) 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.

The Environment option is offered in association with the McGill School of Environment (MSE) and is composed of a thesis component (24 credits), required Geography courses (9 credits), and complementary Geography and Environment courses (9 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. 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.

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 (30 credits) topically on gender and women’s studies, required (6 credits), and complementary (9 credits) courses from Geography and Women’s Studies.

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 (30 credits); required courses (9 credits) in Geography, Environment, and Biology; and complementary courses (6 credits) 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.

The Social Statistics option focuses on applications of quantitative methods in social science and is composed of the thesis (30 credits); required Geography courses (6 credits); and complementary Geography, Sociology, Economics, and Political Science courses (9 credits). The program complements disciplinary training with research experience applying statistical methods to Statistics Canada data (or equivalent). Students will usually complete normal program course requirements supplemented by further statistical courses (as advised by 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.
MGU GPO

section 27.11.6.7: Master of Science (M.Sc.); Geography (Thesis) — Neotropical Environment (45 credits)

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 15.11.9.11: 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.

section 15.11.9.12: Doctor of Philosophy (Ph.D.); Geography — Environment

The Environment 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. 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 15.11.9.13: 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 (9 credits) in Geography and Women’s Studies; and complementary courses (6 credits), one of which must pertain to gender and/or women’s issues.

section 15.11.9.14: 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 (9 credits) in Geography, Environment and Biology; and complementary courses (3 credits) 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.

27.11.6.3 Geography Admission Requirements and Application Procedures

27.11.6.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in section 5: 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 (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. They, 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, which cover a wide range of systematic areas, are listed in documents available from the Department.

27.11.6.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

Further departmental application information is listed at www.mcgill.ca/geography/graduate.

27.11.6.3.2.1 Additional Requirements

The items and clarifications below are additional requirements set by this department:
• Research Proposal
• Letters of Reference – three references required for Ph.D. program

27.11.6.33 Application Deadlines
The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 31</td>
<td>Fall: Jan. 31</td>
<td>Fall: Jan. 31</td>
</tr>
<tr>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
<td>Winter: N/A</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

27.11.6.4 Geography Faculty

Chair
T.R. Moore

Graduate Program Director
S. Breau

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.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (James McGill Professor)
G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

Associate Professors
L. Berrang Ford; M.A.(Oxf.), Ph.D.(Guelph)
S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)
G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)
J. Ford; Ph.D.(Guelph)
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. Ramankutty; M.Sc.(Ill.), Ph.D.(Wisc.)
N.A. Ross; M.A.(Qu.), Ph.D.(McM.)
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)
S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)
Associate Professors
J. Unruh; M.S.(Wisc.), Ph.D.(Ariz.)

Assistant Professors
K. Manaugh; Ph.D.(McG.)
S. Moser; Ph.D.(Sing.)
N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)
B. Robinson; Ph.D.(Wisc. Mad.)

Adjunct Professors
R. Cooke, E. Levac, M. Peros, G. Peterson, O. Sonetag

27.11.6.5 Master of Science (M.Sc.); Geography (Thesis) (45 credits)

Thesis Courses (30 credits)

GEOG 698 (6) Thesis Proposal
GEOG 699 (24) Thesis Research

Required Course (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.

27.11.6.6 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)

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
or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

27.11.6.7 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)**

<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 (9 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>
<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 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.

27.11.6.8 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>
<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.
27.11.6.9 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>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>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>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.

Comprehensives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</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>

27.11.6.10 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>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 631</td>
<td>(3)</td>
<td>Methods of Geographical Research</td>
</tr>
</tbody>
</table>
Comprehensive Examination 1 (0) GEOG 700
Comprehensive Examination 2 (0) GEOG 701
Comprehensive Examination 3 (0) GEOG 702
Feminist Theories and Methods (3) WMST 601
Feminist Research Symposium (3) WMST 602

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.

27.11.6.11 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
BIOL 640 (3) Tropical Biology and Conservation
ENVR 610 (3) Foundations of Environmental Policy
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

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.

27.11.7 Mathematics and Statistics

27.11.7.1 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.math.mcgill.ca
27.11.7.2 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 Category; Theory and Logic; Geometric Group Theory; Algebraic Geometry; Discrete Mathematics; Mathematical Physics; Analysis and its Applications; Differential Geometry; Number Theory; Applied Mathematics; Differential Equations; and Probability and 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 website (www.math.mcgill.ca) provides extensive information on the Department and its facilities, including the research activities and the research interests of individual faculty members. It also provides detailed information, supplementary to this eCalendar, concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.

Students are urged to consult the website (www.math.uqam.ca/ISM) of the Institut des Sciences Mathématiques (ISM), 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 the eCalendar under Faculties & Schools > Faculty of Arts > Graduate > Academic Programs > Mathematics and Statistics.

section 15.11.17.5: 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 (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

section 15.11.17.6: 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 (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

Master of Science (M.Sc.) Programs in Mathematics and Statistics

Detailed program requirements for the following M.Sc. programs are found in the eCalendar under Faculties & Schools > Faculty of Science > Graduate > Academic Programs > Mathematics and Statistics.

section 27.11.7.5: 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 (24 credits) and six approved courses of 3 or more credits each for a total of at least 21 credits.

section 27.11.7.6: 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 27.11.7.7: Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and 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. Please visit our website for more information: www.cs.mcgill.ca/prospective-students/graduate/msc_cse_option.

section 27.11.7.8: 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 (16 credits) and eight approved courses of 3 or more credits each for a total of at least 29 credits.

Ph.D. Programs in Mathematics and Statistics

section 15.11.17.7: 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 15.11.17.8: 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.

27.11.7.3 Mathematics and Statistics Admission Requirements and Application Procedures
27.11.7.3.1 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.

27.11.7.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.

27.11.7.3.2.1 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 the website at www.math.mcgill.ca/students/graduate/application.

27.11.7.3.3 Application Deadlines

The application deadlines listed here 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>Canadian</th>
<th>International</th>
<th>Special/Exchange/Visiting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall: Jan. 15</td>
<td>Fall: Jan. 15</td>
<td>Fall: Same as Canadian/International</td>
</tr>
<tr>
<td>Winter: Sept. 15</td>
<td>Winter: Sept. 15</td>
<td>Winter: Same as Canadian/International</td>
</tr>
<tr>
<td>Summer: N/A</td>
<td>Summer: N/A</td>
<td>Summer: 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.

27.11.7.4 Mathematics and Statistics Faculty

Chair

Jacques Hurtubise
Graduate Program Director
Russell Steele

Emeritus Professors
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.)
Jal R. Choksi; B.A.(Cant.), Ph.D.(Manc.)
Kohur N. GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)
Joachim Lambek; M.Sc., Ph.D.(McG.), F.R.S.C. (Peter Redpath Emeritus Professor of Pure Mathematics)
Michael Makkai; M.A., Ph.D.(Bud.) (Peter Redpath 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.)
William O.J. Moser; B.Sc.(Manit.), M.A.(Minn.), 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.)
John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)

Professors
William J. Anderson; B.Eng., Ph.D.(McG.)
Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. (James McGill Professor)
Stephen W. Drury; M.A., Ph.D.(Cant.)
Christian Genest; BSc.(UQAC), M.Sc.(Vermont), Ph.D.(Br. Col.)
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; BSc.(Montr.), D.Phil.(Oxf.) F.R.S.C.
Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (William Dawson Scholar)
Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Calif. Tech.)
Niky Kamran; B.Sc., M.Sc.(Bruxelles), Ph.D.(Wat.), F.R.S.C. (James McGill Professor)
Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)
F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.) (James McGill Professor)
David A. Stephens; B.Sc., Ph.D.(Nott.)
John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT) (William Dawson Scholar)
Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.)
David Wolfson; B.Sc., M.Sc.(Natal), Ph.D.(Purd.)
Jian-Ju Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Rensselaer Poly.)

Associate Professors
Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)
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.) S.M., Ph.D.(Brown)
Antony R. Humphries; B.A., M.A.(Camb.), Ph.D.(Bath)
### Associate Professors

- Wilbur Jonsson; M.Sc.(Manit.), Dr.Rer.Nat.(Tübingen)
- Ivo Klemes; B.Sc.(Tor.), Ph.D.(Calif. Tech.)
- James G. Loveys; B.A.(St. Mary's), M.Sc., Ph.D.(S. Fraser)
- Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)
- Neville G.F. Sancho; B.Sc., Ph.D.(Belf.)
- Robert Seiringer; Dip, Ph.D.(Vienna)
- Russell Steele; B.S., M.S.(Carn. Mell), Ph.D.(Wash.)
- Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT) (*joint appt. with Computer Science*)

### Assistant Professors

- Abbas Khalili; Ph.D.(Wat.)
- Jean-Christophe Nave; B.Sc., Ph.D.(Calif., Santa Barbara)
- Gantumur Tsogtgerel; Ph.D.(Utrecht)
- Johannes Walcher; Dip, Ph.D.(ETH Zurich)

### Associate Members

- Xiao-Wen Chang (*Computer Science*)
- Luc P. Devroye (*Computer Science*)
- Pierre R.L. Dutilleul (*Plant Science*)
- Eliot Fried (*Mechanical Engineering*)
- Leon Glass (*Physiology*)
- George Haller (*Engineering*)
- James A. Hanley (*Epidemiology and Biostatistics*)
- Hamed Hatami (*Computer Science*)
- Lawrence Joseph (*Epidemiology and Biostatistics*)
- Anmar Khadra (*Physiology*)
- Michael Mackey (*Physiology*)
- Erica Moodie (*Epidemiology and Biostatistics*)
- Lawrence A. Mysak (*Atmospheric and Oceanic Sciences*)
- Christopher Paige (*Computer Science*)
- Prakash Panangaden (*Computer Science*)
- Robert Platt (*Epidemiology and Biostatistics*)
- James O. Ramsay (*Psychology*)
- George Alexander Whitmore (*Management*)
- Christina Wolfson (*Epidemiology and Biostatistics*)

### Adjunct Professors

- Vasek Chvatal; Ph.D.(Wat.)
- Donald A. Dawson; B.Sc., M.Sc.(McG.), Ph.D.(MIT)
- Martin Gander; M.S.(ETH Zurich), M.S., Ph.D.(Stan.)
- Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)
- Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)
- Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Uni.), Ph.D.(Kanazawa)
- Alexei Miasnikov; M.Sc.(Novosibirsk), Ph.D., Dr. of Sc.(Lenin.)
**Adjunct Professors**

M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.

Vladimir Remeslennikov; M.Sc.(Perm, Russia), Ph.D.(Novosibirsk)

Robert A. Seely; B.Sc.(McG.), Ph.D.(Cant.)

**Faculty Lecturers**

José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)

H. Hahn; Ph.D.(Ill.-Urbana-Champaign)

Axel Hundemer; M.Sc., Ph.D.(Munich)

Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)

---

**27.11.7.5 Master of Science (M.Sc.); 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 six approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

---

**27.11.7.6 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Bioinformatics (48 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

**Required Course (3 credits)**

- COMP 616D1 (1.5) Bioinformatics Seminar
- COMP 616D2 (1.5) Bioinformatics Seminar

**Complementary Courses (21 credits)**

6 credits 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

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.
27.11.7.7 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and 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>
<tr>
<td>Course Code</td>
<td>Credits</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
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<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 Math 1</td>
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<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>
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<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 576</td>
<td>3</td>
<td>Geometry in Mechanics</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>

### 27.11.7.8 Master of Science (M.Sc.); Mathematics and Statistics (Non-Thesis) (45 credits)

**Research Project (16 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 640</td>
<td>8</td>
<td>Project 1</td>
</tr>
<tr>
<td>MATH 641</td>
<td>8</td>
<td>Project 2</td>
</tr>
</tbody>
</table>

**Complementary Courses (29 credits)**

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

### 27.11.7.9 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 700</td>
<td>0</td>
<td>Ph.D. Preliminary Examination Part A</td>
</tr>
<tr>
<td>MATH 701</td>
<td>0</td>
<td>Ph.D. Preliminary Examination Part B</td>
</tr>
</tbody>
</table>

**Complementary Courses (21 credits)**

Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

### 27.11.7.10 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)**

<table>
<thead>
<tr>
<th>Course Code</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>
<tr>
<td>MATH 700</td>
<td>0</td>
<td>Ph.D. Preliminary Examination Part A</td>
</tr>
<tr>
<td>MATH 701</td>
<td>0</td>
<td>Ph.D. Preliminary Examination Part B</td>
</tr>
</tbody>
</table>

**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 Code</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>

### 27.11.8 Physics

#### 27.11.8.1 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](http://www.physics.mcgill.ca)

#### 27.11.8.2 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 150.

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 Quebec*, Steacie Prize, Sloan Fellowships, NSERC, and others too many to list here. 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, nuclear physics, statistical physics, and 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 on McGill's lower campus. Our groups also conduct research at laboratories around the world including Argonne, CERN, Fermilab, SLAC, and TRIUMF.

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 currently guarantees financial support of $22,000 per year for every graduate student. This minimum level of support can be supplemented by winning one of McGill's large number of in-house scholarships, worth up to $25,000 per year. For details, see www.physics.mcgill.ca/grads/finance.html.

Graduate students in the Department of Physics come from many different countries and cultures from all over the world, 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 R&D for the proposed SuperB experiment at LNF in Italy, 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.
- Electron-proton collisions: a group is studying high-energy lepton-quark interactions using data from the ZEUS experiment at DESY in Hamburg, with interest in deep inelastic scattering and flavour production.
- Hadron-hadron collisions: CDF and DZero groups employ Fermilab's energy frontier Tevatron proton-antiproton accelerator to study top and bottom quarks and search for the Higgs boson. A group is also involved in major contributions to the next energy frontier at CERN's LHC, with work on the High Level Trigger for the ATLAS experiment.
- High-energy particle astrophysics: ground-based gamma-ray astronomy using the newly commissioned VERITAS telescope array and development of the next-generation detector.

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 and 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

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 nonequilibrium 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, and 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 in Geophysics
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.

**section 27.11.8.5: Master of Science (M.Sc.); Physics (Thesis) (45 credits)**

McGill graduates have gone on to successful careers in academia and industry as well as in government. Our former students teach in colleges and universities world-wide and others have research positions in governmental and industrial laboratories. Still others work in the financial sector or as entrepreneurs making good use of the analytic and quantitative problem-solving skills acquired during their education as physicists. Consult the Department for more information about this program.

**section 27.11.8.6: Doctor of Philosophy (Ph.D.); Physics**

McGill graduates have gone on to successful careers in academia and industry as well as in government. Our former students teach in colleges and universities world-wide and others have research positions in governmental and industrial laboratories. Still others work in the financial sector or as entrepreneurs making good use of the analytic and quantitative problem-solving skills acquired during their education as physicists. Consult the Department for more information about this program.

### 27.11.8.3 Physics Admission Requirements and Application Procedures

#### 27.11.8.3.1 Admission Requirements

**M.Sc.**

The normal requirement is a B.Sc. in Physics or equivalent, with high standing.

**Ph.D.**

The normal requirement is an M.Sc. in Physics or equivalent. 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.

#### 27.11.8.3.2 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 **section 5.3: Application Procedures** for detailed application procedures.

#### Financial Assistance

Financial assistance will be offered to students in the form of a bursary, and teaching and research assistantships. For new students, financial support will be offered at the time of acceptance. Forms are given and filled out on registration day.

#### 27.11.8.3.3.1 Additional Requirements

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

- GRE – recommended but not required

#### 27.11.8.3.3 Application Deadlines

The application deadlines listed here 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](http://www.mcgill.ca/gps/contact/graduate-program).

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</tr>
</tbody>
</table>

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

#### 27.11.8.4 Physics Faculty

**Chair**

P. Grutter
Director of Graduate Studies
S. Jeon

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. DeTakacsy; 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)
N.B. DeTakacsy; B.Sc., M.Sc. (Montr.), Ph.D. (McG.) (Macdonald Emeritus Professor of Physics)
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 Professor
Z. Altounian; Ph.D. (McM.)

Professors
J. Brandenberger; Dip. (ETH), A.M., Ph.D. (Harv.) (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)
C. Gale; B.Sc. (Ott.), M.Sc., Ph.D. (McG.) (James McGill Professor)
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.)
G. Moore; B.S. (Harvey Mudd), Ph.D. (Princ.)
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)
P. Wiseman; B.Sc. (St. FX), Ph.D. (W. Ont.) (joint appt. with Chemistry)

Associate Professors
A. Clerk; B.Sc. (Tor.), Ph.D. (Cornell) (Canada Research Chair)
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)
G. Gervais; B.Sc. (Sher.), M.Sc. (McM.), Ph.D. (N’western)
M. Hilke; B.Sc., M.Sc., Ph.D. (Geneva)
G. Holder; B.Sc., M.Sc. (Qu.), Ph.D. (Chic.) (Canada Research Chair)
### Associate Professors

A. Maloney; B.S., M.S.(Stan.), Ph.D.(Harv.) (*William Dawson Scholar*)
S. Robertson; B.Sc.(Calg.), M.Sc., Ph.D.(Vic., BC)
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) (*Canada Research Chair*)
A. Warburton; B.Sc.(Vic., BC), M.Sc., Ph.D.(Tor.)

### Assistant Professors

L. Childress; Ph.D.(Harv.)
B. Coish; Ph.D.(Basel)
D. Cooke; Ph.D.(Alta.)
P. Francois; Ph.D.(Paris VII)
S. Leslie; Ph.D.(Calif., Berk.)
T. Pereg-Barnea; Ph.D.(Br. Col.)
W. Reisner; B.A.(Reed), Ph.D.(Princ.)
J. Sankey; Ph.D.(Cornell)
J. Walcher; Dip., Ph.D.(ETH) (*joint appt. with Mathematics*)
T. Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

### Lecturer

F. Buchinger; Ph.D.(Johannes Gutenberg)

### Associate Members

G. Brouhard (*Biology*)
M. Chacron (*Physiology*)
I. El Naqa (*Medical Physics*)
K. Gehring (*Biochemistry*)
P. Kambhampati (*Chemistry*)
A. Khadra (*Physiology*)
M. Mackey (*Physiology*)
J. Nadeau (*Biomedical Engineering*)
D. Rassier (*Kinesiology*)
D. Ronis (*Chemistry*)
J. Seuntjens (*Medical Physics*)
T. Szkopek (*Electrical and Computer Engineering*)

### Adjunct Professors

G. Austing, R. Bennewitz, F. Drolet, M. Grisaru, O. Hernandez, L. Piché, A. Sachrajda, J. Vinals

### 27.11.8.5 Master of Science (M.Sc.); Physics (Thesis) (45 credits)

#### Thesis Courses (30 credits)

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<th>Description</th>
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<td>PHYS 690</td>
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<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:

- PHYS 691 (3) Thesis Preparation
- PHYS 693 (3) M.Sc. Research

Students must also successfully complete all the other normal requirements of Graduate and Postdoctoral Studies.

**27.11.6 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

**27.11.9 Psychology**

**27.11.9.1 Location**

Department of Psychology
Stewart Biological Sciences Building, Room W8/33A
1205 Dr. Penfield Avenue
Montreal QC H3A 1B1
Canada

Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: gradsec@ego.psych.mcgill.ca
Website: www.psych.mcgill.ca

**27.11.9.2 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; 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, and 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
Students interested in neuroscience may apply to graduate programs in the Integrated Program in Neuroscience (IPN) department and work with an IPN supervisor from the Department of Psychology. For information about programs offered by the IPN department, see the eCalendar under Faculty of Medicine > Graduate > Academic Programs > section 22.11.14: Neuroscience (Integrated Program in) and www.mcgill.ca/ipn.

For full information about all programs and financial aid, and for application forms, contact the Graduate Program Coordinator, Department of Psychology.

Ph.D. Option in Language Acquisition (LAP)

Information about this option is available from the Department and at: www.psych.mcgill.ca/lap.html.

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.

Faculty of Arts > Graduate > Academic Programs > Psychology > section 15.11.20.5: 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.

Faculty of Science > Graduate > Academic Programs > Psychology > section 27.11.9.5: 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 15.11.20.6: Doctor of Philosophy (Ph.D.); Psychology

Please contact the Department for more information about this program.

section 15.11.20.7: 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 15.11.20.8: 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.

27.11.9.3 Psychology Admission Requirements and Application Procedures

27.11.9.3.1 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.

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 with little or no background in psychology are not required to submit scores on the subject component of the Graduate Record Examination (GRE). We highly recommend to all other students to submit scores on the subject component of the GRE. If you did not take the GRE subject test and are accepted into the program, you may be asked to take it in April. All applicants must take the GRE if they have studied in an English-speaking university. Canadians who have not studied in an English institution are not required to submit the GRE.

27.11.9.3.2 Application Procedures

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

See section 5.3: Application Procedures for detailed application procedures.
27.11.9.3 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) – All applicants must take the GRE if they have studied in an English-speaking university. Canadians who have not studied in an English institution are not required to submit the GRE.

27.11.9.3.3 Application Deadlines

The application deadlines listed here 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.

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Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

27.11.9.4 Psychology Faculty

Chair

J. Lydon

Graduate Program Director

D. Titone

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)
V. Douglas; B.A.(Qu.), M.A., M.S.W., Ph.D.(Mich.)
K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)
F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)
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.)
Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)
J.O. Ramsay; Ed.(Alta.), Ph.D.(Princ.)
B. Sherwin; B.A., M.A., Ph.D.(Cdia) (Canada Research Chair in Hormones, Brain and Cognition)
Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)
N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

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.)
R. Koestner; B.A., Ph.D.(Roch.)
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)
## Professors

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>J. Lydon</td>
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</tr>
<tr>
<td>J. Mogil</td>
<td>B.Sc.(Tor.), Ph.D.(Calif.-LA) (E.P. Taylor Professor of Psychology) (Canada Research Chair in Genetics of Pain)</td>
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<tr>
<td>D.S. Moskowitz</td>
<td>B.S.(Kirkland), M.A., Ph.D.(Conn.)</td>
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<tr>
<td>K. Nader</td>
<td>B.Sc., Ph.D.(Tor.) (James McGill Professor)</td>
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<tr>
<td>D.J. Ostry</td>
<td>B.A.Sc., M.A.Sc., Ph.D.(Tor.)</td>
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<tr>
<td>C. Palmer</td>
<td>B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(Cornell) (Canada Research Chair in Cognitive Neuropsychology Performance)</td>
<td></td>
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<tr>
<td>M. Petrides</td>
<td>B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)</td>
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<tr>
<td>R.O. Pihl</td>
<td>B.A.(Lawrence), Ph.D.(Ariz.)</td>
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<td>T.R. Shultz</td>
<td>B.A.(Minn.), Ph.D.(Yale)</td>
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<tr>
<td>M. Sullivan</td>
<td>B.A.(McG.), M.A., Ph.D.(C'dia) (Canada Research Chair in Behavioral Health)</td>
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<tr>
<td>D.M. Taylor</td>
<td>M.A., Ph.D.(W. Ont.)</td>
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<tr>
<td>D.C. Zuroff</td>
<td>B.A.(Harv.), M.A., Ph.D.(Conn.)</td>
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## Associate Professors

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<tr>
<td>E.S. Balaban</td>
<td>B.A.(Mich. St.), Ph.D.(Rockefeller)</td>
<td></td>
</tr>
<tr>
<td>Y. Chudasama</td>
<td>B.Sc., Ph.D.(Cardiff)</td>
<td></td>
</tr>
<tr>
<td>H. Hwang</td>
<td>B.A.(Chung-Ang), Ph.D.(McG.)</td>
<td></td>
</tr>
<tr>
<td>B. Knauper</td>
<td>Dr. phil.(Germany, Mannheim)</td>
<td></td>
</tr>
<tr>
<td>M.J. Mendelson</td>
<td>B.Sc.(McG.), A.M., Ph.D.(Harv.)</td>
<td></td>
</tr>
<tr>
<td>G. O'Driscoll</td>
<td>B.A.(Welles.), Ph.D.(Harv.) (William Dawson Scholar)</td>
<td></td>
</tr>
<tr>
<td>K. Onishi</td>
<td>B.A.(Brown), M.A., Ph.D.(Ill.)</td>
<td></td>
</tr>
<tr>
<td>M. Pompeiana</td>
<td>M.D., Ph.D.(Pisa)</td>
<td></td>
</tr>
<tr>
<td>Z. Rosberger</td>
<td>B.Sc.(McG.), M.A., Ph.D.(C’dia) (Part-time)</td>
<td></td>
</tr>
<tr>
<td>D. Titone</td>
<td>B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton) (Canada Research Chair in Cognitive Neuroscience of Language and Memory)</td>
<td></td>
</tr>
</tbody>
</table>

## Assistant Professors

<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees and Institutions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Bartz</td>
<td>B.A.(C’dia), M.A., Ph.D.(McG.)</td>
<td></td>
</tr>
<tr>
<td>I. Bradley</td>
<td>B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (Part-time)</td>
<td></td>
</tr>
<tr>
<td>J. Britt</td>
<td>B.A.(Colo.), Ph.D(Balt.)</td>
<td></td>
</tr>
<tr>
<td>M. Dirks</td>
<td>B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)</td>
<td></td>
</tr>
<tr>
<td>F. Gu</td>
<td>B.Sc.(Sing.), M.Sc., Ph.D.(Kansas)</td>
<td></td>
</tr>
<tr>
<td>J. Ristic</td>
<td>B.A., M.A., Ph.D.(Br. Col.) (William Dawson Scholar)</td>
<td></td>
</tr>
<tr>
<td>H.-T. Yu</td>
<td>B.S.(Taiwan), M.S., M.A., Ph.D.(Ill.-Urbana-Champaign)</td>
<td></td>
</tr>
</tbody>
</table>

## Lecturer

P. Carvajal

## 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*
**Associate Members**

*Psychiatry:* D. Dunkley, F. Elgar, M. Leyton, J. Pruessner, A. Raz

**Adjunct Professors**

M. Bruck, P. Delisle, J. Gradinger, S. Harnad, Z. Pleszewski, A.G. Ryder, P. Zelazo

**Part-Time Appointments**

J. LeGallais, J. Russell, M. Sinai

**Professional CAS**

R. Amsel, Associate Professor
L. Koski, Assistant Professor
S. Stotland, Assistant Professor

### 27.11.9.5 Master of Science (M.Sc.); Psychology (Thesis) (45 credits)

**Thesis Courses (27 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 690</td>
<td>15</td>
<td>Masters Research 1</td>
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<tr>
<td>PSYC 699</td>
<td>12</td>
<td>Masters Research 2</td>
</tr>
</tbody>
</table>

**Required Courses (18 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PSYC 601</td>
<td>6</td>
<td>Master's Comprehensive</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>
<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>

### 27.11.9.6 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 (6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 701</td>
<td>6</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

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 degree then the following courses are also required:
27.11.9.7 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, approved by the LAP 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 (14 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 711</td>
<td>2</td>
<td>Language Acquisition Issues 3</td>
</tr>
<tr>
<td>LING 710</td>
<td>2</td>
<td>Language Acquisition Issues 2</td>
</tr>
<tr>
<td>PSYC 701</td>
<td>6</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
<tr>
<td>PSYC 709</td>
<td>2</td>
<td>Language Acquisition Issues 1</td>
</tr>
<tr>
<td>SCSD 712</td>
<td>2</td>
<td>Language Acquisition Issues 4</td>
</tr>
</tbody>
</table>

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 degree then the following courses are also required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<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>
<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>

Complementary Courses (9 credits)

One graduate-level course in statistics, such as:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</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>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.

Two courses selected from the following list, at least one course must be outside the Department of Psychology:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSL 620</td>
<td>3</td>
<td>Critical Issues in Second Language Education</td>
</tr>
<tr>
<td>EDSL 623</td>
<td>3</td>
<td>Second Language Learning</td>
</tr>
</tbody>
</table>
EDSL 624 (3) Educational Sociolinguistics
EDSL 627 (3) Classroom-Centred Second Language 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
PSYC 734 (3) Developmental Psychology and Language
PSYC 736 (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

27.11.9.8 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>NUR2 705</td>
<td>(3)</td>
<td>Palliative Care</td>
</tr>
<tr>
<td>NUR2 783</td>
<td>(3)</td>
<td>Psychosocial Oncology Research</td>
</tr>
<tr>
<td>PSYC 701</td>
<td>(6)</td>
<td>Doctoral Comprehensive Examination</td>
</tr>
</tbody>
</table>

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>
<td>(3)</td>
<td>Advanced Statistics 1</td>
</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>

**Complementary Course (3 credits)**

One of the following courses:
27.11.10 Redpath Museum

27.11.10.1 Location

Redpath Museum
859 Sherbrooke Street West
Montreal QC H3A 0C4
Canada

Telephone: 514-398-4086
Fax: 514-398-3185
Website: www.mcgill.ca/redpath

27.11.10.2 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 ethnological artifacts. Research and teaching are centred on collections-based study, object-oriented investigation, and fieldwork.

27.11.10.3 Redpath Museum Admission Requirements and Application Procedures

27.11.10.3.1 Admission Requirements

The Redpath Museum does not have its own graduate program. 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.

27.11.10.3.2 Application Procedures

Students in the Redpath Museum may enrol in McGill's Department of Biology or other units, including the Department of Earth and Planetary Sciences, the Department of Anthropology, the Department of Natural Resource Sciences, or the Faculty of Education. Anyone interested should contact the unit concerned.

27.11.10.3.3 Application Deadlines

For more information, please contact the Graduate Program Coordinator in the department you are interested in.

27.11.10.4 Redpath Museum Faculty

**Director**
David M. Green

**Emeritus Professor**
Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

**Professor**
David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F.L.S.

**Associate Professors**
Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (joint appt. with Biology)
Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.) (CRC Tier 2 Chair in Paleontology)
Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (joint appt. with McGill School of Environment)

**Assistant Professors**
Rowan Barrett; B.Sc.(Guelph), M.Sc.(McG.), Ph.D.(Br. Col.) (CRC Tier 2 Chair in Biodiversity Science)
Assistant Professors

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

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