Graduate and Postdoctoral Studies

Programs, Courses and University Regulations

2013-2014

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

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1 University Regulations and Resources

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 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.

2.1.1 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.

2.1.2 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) fulfil the minimum residence requirement in their program.

2.1.3 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.

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

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

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

In the doctoral program, students must be registered on a full-time basis for one more year after completion of the residency (i.e., Ph.D. 4 year) before continuing as Additional Session students until completion of the program. It is expected that, at this stage, all the coursework and comprehensive examinations will have been completed and the student will be engaged in thesis preparation.

Graduate students in non-thesis programs, graduate diplomas and certificates who have registered for all required courses but have not completed the work and/or have completed the residency requirements must register as Non-Thesis Extension students and pay fees accordingly. For example, a student who has registered for a last course such as a project but has not completed it, must register as Non-Thesis Extension status until graduation. Students in a Non-Thesis Extension session who are not registered for at least 12 credits per term, are not considered engaged in full-time studies.

2.1.5 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 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.

2.1.6 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.

2.1.7 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.

2.1.8 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/transfercredit/current/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.

2.1.9 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*.

2.1.10 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.

2.1.11 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* (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:

- All requests for a leave of absence due to health, familial or parental reasons must be accompanied 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.

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 at: *www.mcgill.ca/study*.

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/students/progress/leave-vacation*; 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.

2.1.12 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.

2.1.13 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.

2.1.14 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/transfercredit/current/iut*. You may find additional information posted on your faculty website.

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

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

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

2.1.15 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/transfercredit/current/iut*. You should also refer to your home university website for regulations on the number of credits allowed, as well as the policies for transferring the credits.

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

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

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 *Programs, Courses and University Regulations > 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.

2.2 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.

2.2.1 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* after completing a *Minerva Course Selection Form* and obtaining departmental approval.

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

Returning Students:

Returning students register via *Minerva* between Tuesday, April 9, 2013 and Wednesday, August 14, 2013.

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 2013 register on Minerva between Tuesday, July 9, 2013 and Wednesday, August 14, 2013.

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 2014 register on Minerva between Tuesday, December 3, 2013 and Monday, January 6, 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 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.

2.2.2 Fee Policies Related to Registration

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 6: Fees*; particular attention should be paid to *section 6.8: Fees and Withdrawal from the University* and *section 6.9: Other Policies Related to Fees: Overdue Accounts*.

2.2.3 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.”

2.2.4 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.

2.2.5 Courses Taken as Extra to a Program

Courses are offered through the McGill Writing Centre for graduate students whose first language is not English, and some writing courses are offered in other units. These courses cannot be counted toward the requirements of a graduate program.

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 use of academic research, genres, rhetorical strategies, and editing skills.

CESL 640 FUNDAMENTALS OF ACADEMIC WRITING FOR GRADUATE STUDENTS (3) (Formerly ESLN 640.) (Prerequisite: Placement test.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 590 or ESLN 640 or ESLN 690 except with permission of the instructor.) (This course cannot be counted towards course requirements of any graduate program.) Focus is on structuring an academic essay and expressing complex ideas. Multiple drafts. Independent learning strategies for academic reading, critical thinking, vocabulary building, and self-editing. Review of writing mechanics.

CESL 650 PRONUNCIATION AND COMMUNICATION (3) (3 hours) (Formerly ESLN 650.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 550 or ESLN 650.) (This course cannot be counted towards course requirements of any graduate program.) Focus on developing pronunciation and communication skills, including aspects of pronunciation that most affect intelligibility, and with verbal and non-verbal techniques for effective presentations.

CESL 660 PRONUNCIATION: INDEPENDENT STUDY (0) (Formerly ESLN 660.) (Prerequisite: CESL 650 or ESLN 650.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language. Not open to students who have taken ESLN 660.) Oral practice in a language lab using authentic materials specific to students' field of study.

CESL 690 WRITING FOR GRADUATE STUDENTS (3) (Formerly ESLN 690.) (Restrictions: Open only to graduate students in degree programs for whom English is a second language and who are at the thesis/dissertation writing stage, except with permission of the instructor. Not open to students who have taken ESLN 590 or ESLN 690.) (This course cannot be counted towards course requirements of any graduate program.) Audience, purpose, organization, and style of graduate-level academic writing. Mechanics. Editing. Textual analysis. Critical thinking. Genres: problem-solution, general-specific, process description, data commentary, article summary/critique. Student work-in-progress. ESL diagnosis-correction. Multiple drafts. Extensive feedback including audio-taped commentary and individual conferences.

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.

2.2.6 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.

2.2.7 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

2.2.8 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 2.14: 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*. Fees will then be refunded according to the conditions outlined in *section 2.5: Course Change Period* and in *section 2.7: Regulations Concerning Course Withdrawal*.

2.2.9 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*.

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

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

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

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

2.3 Course Information and Regulations

Students are advised to also refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > : Registration* and *: Student Records*.

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

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

Not all courses listed are offered every year.

2.3.1 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.

2.3.2 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* 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.

2.3.3 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 2013 and Winter 2014.

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

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

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

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

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

Important Conditions for Multi-term Courses

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

2.3.4 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 *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Student Records > : Credit System*.

2.3.4.1 Course Nomenclature in Program Descriptions

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

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

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

2.4 Summer Studies

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

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

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

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

Students in thesis programs, who pay fees on a per term basis and who have already paid full-time tuition fees during the preceding year are not required to pay for required courses taken in the summer. If you are registered in a thesis program in Additional Session status, you will be charged Additional Session

fees in the Summer term. Students in non-thesis programs will be charged fees for courses taken in the summer. **Registration for "summer studies" should not be confused with summer registration in a graduate program. For more information, see** ***section 2.2.3: Summer Registration*** .

Many summer courses have limited enrolment and students are advised to register for such courses as early as possible. Graduate students intending to register for restricted undergraduate courses must complete a *Request for Registration/Course Changes* web form available at *www.mcgill.ca/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*.

2.5 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.

2.6 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."

2.7 Regulations Concerning Course Withdrawal

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

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

2.7.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 24, 2013

Deadlines for withdrawal (grade of W) without refund:

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

2.7.2 Courses that Begin in the Winter Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, January 28, 2014

Deadline for withdrawal (grade of W) without refund:

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

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

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

Note:

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your Faculty Student Affairs Office. Additional restrictions for Music courses are indicated in *Programs, Courses and University Regulations* > *Faculties & Schools* > *Schulich School of Music* .
2. It is solely your responsibility to initiate a course withdrawal on Minerva. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on Minerva is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the Course Change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with *section 6.8: 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*.

Revision, July 2013. Start of revision.

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 2.8: Regulations Concerning 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.

Revision, July 2013. End of revision.

2.8 Regulations Concerning University Withdrawal

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

2.8.1 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*.

Revision, July 2013. Start of revision.

Note for Graduate and Postdoctoral Studies: The date the request for withdrawal is submitted is the official date of withdrawal.

Revision, July 2013. End of revision.

2.8.2 Regulations Concerning University Withdrawal: Deadlines for University Withdrawal

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

2.8.2.1 Fall Term:

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

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

2.8.2.2 Winter Term:

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

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

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

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

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

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

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

Revision, July 2013. Start of revision.

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*.

Revision, July 2013. End of revision.

2.8.3 Regulations Concerning University Withdrawal: Consequences of University Withdrawal

Any applicable fee refunds for the term of withdrawal will be according to *section 6.8: Fees and Withdrawal from the University*.

Once you withdraw, you must return your ID card to the University as stated in *section 2.31: Identification (ID) Cards*.

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

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

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

2.9 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 fulfil program requirements.

Grading and Grade Point Averages (GPA)		
Grades	**Grade Points**	**Numerical Scale of Grades**
A	4.0	85–100%
A-	3.7	80–84%
B+	3.3	75–79%
B	3.0	70–74%
B-	2.7	65–69%
F (Fail)	0	0–64%

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.

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

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*.

Other Grades:

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.

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.

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

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

1. Ask to be assigned a grade based only on the grades earned for your work submitted up to, but not including, the final exam.

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

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

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

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

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

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

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

Revision, July 2013. Start of revision.

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 in Enrolment Services.

Revision, July 2013. End of revision.

2.11 Verification of Student Records: Unofficial Transcripts

Subject to *section 2.13: Changes to Student Records after Normal Deadlines*, you are responsible for verifying your academic record on Minerva (*www.mcgill.ca/minerva*) using the unofficial transcript to ensure that you are registered in the proper courses, and that the correct program information and expected term of graduation appear on your record.

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

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

Revision, July 2013. Start of revision.

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

Revision, July 2013. End of revision.

2.12 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*.

2.13 Changes to Student Records after Normal Deadlines

2.13.1 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.

2.13.2 Registrar Deadlines

Fall term – January 31

Winter term – June 1

Summer term – October 1

2.13.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the Registrar deadlines listed in *section 2.13.2: 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*.

2.13.4 After Registrar Deadlines

The University does not normally consider a change requested after the Registrar deadlines listed in *section 2.13.2: 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*.

2.13.5 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.

2.13.6 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 2.26: Legal Documents: Why Does McGill Collect Legal Documents from You?* You may be assessed a fee for a change requested after the submission deadline.

2.14 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:

The procedure in cases of initial failure is as follows: the failing grade is to be recorded and a letter sent to Enrolment Services indicating that a supplemental examination is to be given under the *Failure Policy*. If the supplemental is passed, the second grade should be submitted. The same procedure applies for a recommendation of a retake or a substitution. In the event of a failure of a supplemental exam, the department should request, in writing, that the student withdraw (with a copy of said letter forwarded to Enrolment Services).

Similarly, in the event of a failure in a second course, a written request for withdrawal (copied to GPS) should be sent to the student.

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 2.9: 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*.

2.15 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 publications *Programs, Courses and University Regulations* > *Faculties & Schools* > *Summer Studies* and *Programs, Courses and University Regulations* > *Faculties & Schools* > *School of Continuing Studies*. There are special language requirements for Faculty of Education students; see *Programs, Courses and University Regulations* > *Faculties & Schools* > *Faculty of Education*.

Note for Continuing Studies: For English language programs, see *Programs, Courses and University Regulations* > *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.

Revision, July 2013. Start of revision.

Note for Graduate and Postdoctoral Studies: You should refer to *University Regulations and Resources* > *Graduate* > *Regulations* > *Registration* > *section 2.2.5: Courses Taken as Extra to a Program*.

Revision, July 2013. End of revision.

2.16 University Student Assessment Policy

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

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

You can consult the policy at *University Student Assessment Policy*.

2.17 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*.

2.18 Graduation

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

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

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

Minimum Residency Requirement

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

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

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

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

- You must successfully complete a minimum of 21 McGill credits (excluding prerequisites and corequisites) 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.

2.18.1 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 2.18: 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.

2.18.1.1 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.

Revision, July 2013. Start of revision.

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 eCalendar at *www.mcgill.ca/study*.

Revision, July 2013. End of revision.

2.18.2 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.

2.18.3 Replacing a Diploma

Revision, June 2013. Start of revision.

2.18.3.1 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.

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

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

2.18.3.2 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).

2.18.3.2.1 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.

Revision, June 2013. End of revision.

2.18.4 Dean's Honour List

Only graduate students who have completed their program within the University's time limitation for their program are considered for the Dean's Honour List designation.

The criteria for inclusion in the Dean's Honour List is as follows:

Master's Thesis Candidates:
Truly outstanding student recommended by the department.

2.19 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.

2.20 Policy Concerning Access to Records

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

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

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

Revision, June 2013. Start of revision.

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

Revision, June 2013. End of revision.

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

2.21 Transcript of Academic Record: Unofficial Transcripts

If you require a copy of your student record, access Minerva (*www.mcgill.ca/minerva*) to view and print an unofficial transcript. This applies to records from 1976 to the present. For pre-1976 records, you must order an official transcript. See *section 2.22: Transcript of Academic Record: Official Transcripts*.

2.22 Transcript of Academic Record: Official Transcripts

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

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

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

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

2.23 Transcript of Academic Record: General Information

Revision, June 2013. Start of revision.

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 2.22: Transcript of Academic Record: 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.

Revision, June 2013. End of revision.

2.24 Transcript of Academic Record: Course Numbering on the Transcript

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

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

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

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

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

For information on our current course numbering, see *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > Registration > Course Information and Regulations > section 2.3.2: 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).

2.25 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*.

Revision, July 2013. Start of revision.

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

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

Revision, July 2013. End of revision.

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

Your tuition status at McGill will vary depending on your status in Canada. In order for us to determine your appropriate rate of tuition (Quebec, Canadian out-of-province, or international), we require legal documents confirming your current status. We also require these documents to confirm your valid citizenship/immigration status. To find out which documents you must provide—and when they are required—refer to: *section 2.27: Legal Documents: What Documents Does McGill Need from You?*

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

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

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

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

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

Quebec and Canadian Out-of-Province Students	
You have applied to McGill directly from CEGEP or you already have a student record at McGill	• **Usually** no documents are required for your Canadian and/or Quebec status, based on McGill's records or as confirmed by the Government of Quebec
You have applied to McGill from another Quebec university	• Proof of Canadian status is required: Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card) • Additionally, for your Quebec residency status, **usually** no documents are required, unless McGill cannot confirm this from the Government of Quebec
You were born in Quebec	• Quebec **birth certificate** (Note 4) • Permanent Code Data Form (Notes 1 and 5)
You were born in (or are a Landed Immigrant from) a Canadian province other than Quebec	• Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card) • Permanent Code Data Form (Notes 1 and 5)
You are a Quebec resident as defined by one of the other situations outlined by the Government of Quebec	• Canadian birth certificate; or Canadian citizenship card (both sides of the card); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence (Note 2); or valid Canadian Permanent Resident card (both sides of the card) • Permanent Code Data Form (Notes 1 and 5) • Attestation of Residency in Quebec Form (Note 5) • ***Other supporting documents*** , depending on which situation you checked on the above Attestation of Residency Form

International Students	
You will be studying at McGill for less than six months (i.e., for only one academic semester) as a non-degree student (e.g., Exchange, Special, Visiting)	• Visitors Permit issued at your port of entry into Canada by Citizenship and Immigration Canada • Photo page of your passport and the page date-stamped by Citizenship and Immigration Canada at your port of entry • Permanent Code Data Form (Notes 1 and 5)
You will be in Canada for more than six months (i.e., you are enrolled in a degree, certificate, or diploma program, usually for two or more consecutive academic semesters)	• Certificate of Acceptance of Quebec (CAQ) • Permanent Code Data Form (Notes 1 and 5) • Study Permit issued by Immigration Canada (Note 3)

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

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

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

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

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

2.27.1 Fee Exemptions

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

1. French Course Fee Exemptions – Non-Quebec Canadian and international students are automatically assessed fees for certain eligible French courses at the Quebec tuition rate (note exclusions as listed at *www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions*).
2. Out-of-province Tuition Supplement Exemptions – Non-Quebec Canadian students in the following categories are exempted from out-of-province tuition supplements (details at *www.mcgill.ca/student-accounts/tuition-fees/general-information/tuition-fee-exemptions*):

    - Students in a Ph.D. program
    - Students in a Post-Graduate Medical Education program: Medical Residents, Clinical Fellows, Clinical Research Fellows, Research Fellows
    - Students registered full-time in the Masters in French (Maîtrise en français). The exemption begins at the moment the student registers in the program, without retroactive effect.

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

    - Citizens of France
    - Citizens of certain countries with an agreement with the Government of Quebec
    - Diplomatic, consular or other representatives of international organizations
    - Convention refugees
    - Students awaiting permanent residency in Canada and holding an eligible CSQ
    - Students whose spouse or unmarried students whose parent holds a Temporary Work Permit in Canada
    - Students funded by the FRSQ (*Fonds de la recherche en santé du Québec*)

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

Note that this information may be subject to change.

2.28 Legal Documents: Has McGill Received Your Documents?

2.28.1 Quebec/Canadian/International Fees and Immigration Status

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

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

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

2.28.2 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 2.27: Legal Documents: What Documents Does McGill Need from You?* or the Government of Quebec has not yet confirmed that your documents are sufficient to create a Permanent Code.

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

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

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

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

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

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

2.30 Legal Documents: Where Do I Send My Documents?

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

By Email:
Follow these steps to submit your legal documents electronically.

1. **Save the attached file in an accepted format.**

   Standard PDF (.pdf) – encrypted PDFs will not be accepted.
   Tagged image format (.tif, .tiff for scanned images).

   Ensure that you save your documents properly in one of the above formats—do not just rename the file extension. Due to the possibility of computer viruses, McGill does **not** accept Microsoft Word documents (.doc), hypertext files (.htm, .html), JPG, GIF, or any other format.
2. **Ensure that the resolution used is at least 300 dpi (dots per inch)** for an electronic replica (scan) of documentation (e.g., a scan of your birth certificate). The preferred file size is 100KB per image.
3. **Address your email to *legaldocumentation@mcgill.ca* and attach your relevant scanned document(s).** Attach the file(s) to your email; do not include the documents in the body of your email.
4. **Put your First Name, Last Name, and McGill ID number in the subject line of your email.**

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

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

In Person:
Service Point
3415 McTavish Street
Montreal, Quebec H3A 0C8

If there is a problem with your documents, contact:
Telephone: 514-398-7878
Email: *http://webforms.mcgill.ca/servicepoint/request.asp*

2.30.1 For the School of Continuing Studies

By Mail or in Person:

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

By Fax:

514-398-2650

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

Telephone: 514-398-6200

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

2.31 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 2.27: Legal Documents: What Documents Does McGill Need from You?*).

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

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

- New students must be registered for at least one course to obtain an ID card.
- You must allow at least three hours after you have registered before applying for your ID card.
- If you do not register for consecutive terms, you should retain your ID card to avoid having to replace it when you re-register.
- If your card has expired, there is no charge for a replacement as long as you hand in the ID card.
- If you change programs or faculties, there is no charge as long as you hand in the ID card.

- If your card has been lost, stolen, or damaged, there is a $25 replacement fee.
- If you need security access to labs or other facilities, see *www.mcgill.ca/security/services-0/access-control*.

2.31.1 ID Card Schedule for the Downtown Campus:

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

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

2.31.2 ID Card Schedule for the Macdonald Campus:

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

Student Affairs Office, Room 106, Laird Hall
Office hours:
Monday through Friday – 9:00 a.m. to 4:00 p.m.
Friday throughout the summer – 9:00 a.m. to 3:00 p.m.
Closed for Monday, June 24, and Monday, July 1

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.

2.32 Name: Legal Name

Revision, June 2013. Start of revision.

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.

Revision, June 2013. End of revision.

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.

2.33 Name: Preferred First Name

Revision, June 2013. Start of revision.

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.

Revision, June 2013. End of revision.

2.34 Name: Verification of Name

Revision, June 2013. Start of revision.

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 2.32: Name: Legal Name* and *section 2.33: Name: Preferred First Name*) in person at *Service Point*, 3415 McTavish Street, Montreal, Quebec, H3A 0C8.

Revision, June 2013. End of revision.

Note for Continuing Studies: Requests for such changes must be made by presenting official documents (see *section 2.32: Name: Legal Name*) in person at the Client Services Office, School of Continuing Studies.

2.35 Email Communication

Revision, July 2013. Start of revision.

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*.

Revision, July 2013. End of revision.

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 7: 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.

2.36 Updating Personal Information

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

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

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

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

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.

2.37 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.

2.38 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*.

2.39 Non-Smoking Policy

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

2.40 Health Professions – Immunization Requirement

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

2.41 Health Insurance – International Students

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

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

Service Point

3415 McTavish Street
Montreal, Quebec H3A 0C8

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

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

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

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.

2.42 Health Insurance – Canadian Residents

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

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

Revision, June 2013. Start of revision.

All international students (undergraduate and graduate) will be automatically enrolled in the International Health Insurance plan. This plan provides a basic and a supplemental health plan. All undergraduate and graduate students will be automatically enrolled in the applicable Students' Society's Dental Plan. For details on fees, change of coverage dates, and on what is covered by the plans, refer to *www.ihaveaplan.ca*. If you're not sure of your eligibility, contact the *Alliance pour la santé étudiante au Québec* (ASEQ) at 514-789-8775 or 1-866-795-4435, Monday to Friday, from 9 a.m. to 5 p.m. (*www.aseq.com*).

Revision, June 2013. End of revision.

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.

Revision, July 2013. Start of revision.

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 2.41: Health Insurance – International Students*. In 2013–2014, the cost of this plan is $401.45 (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*.

Revision, July 2013. End of revision.

2.43 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 5.2: Student Services – Downtown Campus* or (*www.mcgill.ca/studenthealth/clinic*) for contact information on the Downtown campus, and see *www.mcgill.ca/macdonald-studentservices/feeling-sick* for Macdonald campus.

2.44 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:

Revision, June 2013. Start of revision.

- 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

Revision, June 2013. End of revision.

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

2.45 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:

Revision, June 2013. Start of revision.

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

Revision, June 2013. End of revision.

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

2.46 Service Point

Service Point has brought together newly integrated, front-line undergraduate and graduate student administrative services. Located on the ground floor of the McLennan Library Building in the heart of the Downtown campus, Service Point will address a wide variety of students' needs.

Among the many services offered at Service Point for undergraduate and graduate students:

- certified or translated copies of diplomas
- degree verification

- help with admissions
- help with Minerva
- international health insurance cards and exemptions
- McGill ID cards
- official transcript pick-up
- replacement diplomas
- student exchanges/study abroad
- submitting legal documents
- tuition and fees information
- pick-up of alternative U.S. Loans

Arts or Science students will also be able to inquire about:

- course and program registration
- exams (including deferred and supplemental)

For a complete list of student services and resources at McGill, see *www.mcgill.ca/students*.

For more information about Service Point, see *www.mcgill.ca/students/servicepoint*.

Service Point Location

3415 McTavish Street (corner Sherbrooke)
Montreal, QC H3A 0C8

Opening hours: please refer to *www.mcgill.ca/students/servicepoint*
Telephone: 514-398-7878
Email for current students: *http://webforms.mcgill.ca/servicepoint/request.asp?bhcp=1*.
Email for applicants/prospective students: *http://webforms.mcgill.ca/servicepoint/contact.asp?bhcp=1*.

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-exams#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 paper, comprehensive evaluation, thesis proposal, etc. The Graduate and Postdoctoral Studies *Programs, Courses and University Regulations* publication includes the following statement:

> A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 at the commencement of their programs.

It is recognized that expectations for the Ph.D. comprehensive will vary according to the needs of the discipline. It is important to make it clear to doctoral candidates what the expectations and procedures are for their Ph.D. comprehensive, and to maintain consistency within a given program.

General Policy

1. At the beginning of the relevant academic year, units must provide doctoral students with a written description of the Ph.D. comprehensive, covering the following issues: objectives and content, format, timing, assessment, grading and reporting, failures. (See below for details.)
2. All units that have a Ph.D. comprehensive must adopt an administrative course number for it, usually XXXX 701. One of the following forms of grading must be adopted and used consistently within the program: Pass/Fail or letter grades. ("Mixed" modes of grading are not permitted, i.e., some students within a program reported on a Pass/Fail basis and others by means of letter grades.)

Specific Issues

Objectives and Content

Units must specify the objectives of the Ph.D. comprehensive. Objectives may include assessing any of the following (or a combination), with a view to determining whether the student demonstrates the necessary research skills and academic achievements to be permitted to continue in the Ph.D. program. (This list is not intended to be exhaustive.)

- knowledge of the discipline (from the point of view of breadth)
- 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 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 clearly stated and must be consistent across students within a particular program. The following list gives some of the more common formats, which are often combined. (This list is not intended to be exhaustive.)

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

If the comprehensive consists of several parts, the relationship (if any) between them must be made clear.

Timing

Timing of the comprehensive must be specified, including the earliest and latest dates by which the comprehensive is to be completed. Students must be informed of the specific dates of the exam in sufficient time for them to prepare for it.

Given the importance of the Ph.D. comprehensive and the consequences of failure, the exam should be held reasonably early in the program, so that students do not spend several years preparing for it.

Prerequisites must be specified. For example, clarify whether all coursework must have been completed prior to the comprehensive and whether the comprehensive is the final step before thesis research and writing.

Assessment, Grading and Reporting

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, clarify how the committee is appointed and who sits on it. In the case of written examinations, clarify whether the grading is done by one or more people.

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, make it clear whether each component counts equally, whether the assessment is global, and whether failure on one part of the comprehensive examination (or on one question) results in an overall failure.

Feedback

The assessment and reasons for the decision must be documented and provided to the student in sufficient detail to allow the student to understand the decision, including identifying strengths and weaknesses. (A number of units have developed short forms specifically for this purpose.) In the case of oral examinations, the student should also be given feedback on presentation, logical exposition, ability to answer questions, etc.

In the case of oral exams, units may wish to consider the following: ensure that there is a reasonably detailed written assessment of the student's performance; tape the oral examination; allow the student to select a faculty member to act as a neutral observer; have one faculty member serve as a neutral chair (equivalent to a Pro-Dean); have an "outside" committee member; have the oral examination open to other students and faculty members.

Plagiarism

McGill University values academic integrity, which is fundamental to achieving our mission of the advancement of learning. Therefore, all students must understand the issues associated with **academic integrity** (see *www.mcgill.ca/students/srr/honest* for more information).

Plagiarism in a Ph.D. comprehensive examination contravenes McGill University's academic goals and standards. Consequently, any student found guilty of plagiarism under the Code of Student conduct and Disciplinary Procedures (see the *Handbook on Students Rights and Responsibilities* available at

www.mcgill.ca/secretariat/policies/students) in a Ph.D. comprehensive examination may face very serious penalties, even expulsion from the University without the degree.

Failures

i. Repeats

In the event of a failure, units must allow, without prejudice, one repeat of the comprehensive (in whole or in part). The first time a student fails, 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. In such circumstances, the grade of HH (continuing) will be used. In the event of a second failure, the student will receive a grade of F and must withdraw from the Ph.D. program.

Conditions for retaking the examination must be clearly stated, 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 (e.g., requiring students to take an additional course or courses in areas where they have shown weakness on the comprehensive).

ii. Plagiarism

If plagiarism is suspected, the case will be referred directly to the committee on Student Discipline in accordance with the code of Student Conduct, Part III (article 15) and Part V (A). If plagiarism is established by due University process, the student is considered to have failed the examination, with no possibility of repeat.

iii. Review and Reassessment

Rereads: in the case of written comprehensives, the Graduate Studies Reread Policy applies.

A student who fails an oral examination may request a review. In such cases, Graduate and Postdoctoral Studies will conduct a review of the examination process and procedures.

Other Relevant Policies/Offices

Charter of Student Rights
Graduate Studies Reread Policy
Office for Students with Disabilities

Approved by Executive of Faculty of Graduate Studies and Research (FGSR) February 17, 1997 and Council of FGSR March 7, 1997

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.

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 grade 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.

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 graded and that the final grade has correctly been computed on the basis of the term work, final examination, etc.

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 grade, 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. Assignments can only be reread if, together, they account for more than 20% of the course grade.

The reread by a second reader is a review of the grade, not the work assigned. It is the second reader's task to determine whether the original grade 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 grades for the course. However, in the case of work which has been graded during the course and returned to the student, students must indicate in writing to Graduate and Postdoctoral Studies by sending an email to *gradstudentrecords.es@mcgill.ca* with the subject "Request for a Reread," within 5 working days of receiving the graded work, their intention to request a reread. This intention must be confirmed within 30 days of the posting of the final grades for the course.

(Note: Material that is 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 grade assigned.)

2. The request for a formal reread must be made by the student in writing to Graduate and Postdoctoral Studies by sending an email to *gradstudentrecords.es@mcgill.ca* with the subject "Request for a Reread" 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 grade or indicating why this has not been possible. The reread fee ($35 for an exam, $35 for a paper, $35 for one or more assignments, to a maximum of $105 per course) will be charged directly to the student's fee account after the result of the reread is received. No fee will be charged if there is a change upwards in the letter grade for the course.
3. Administration of the reread is handled by Graduate and Postdoctoral Studies, not by the department. GPS will contact the department to obtain the work to be reread, a list of potential readers, and details of the grading. The list of potential readers must be approved by the Department Chair or Graduate Program Director. The Chair or Director must, as well, vouch for the impartiality of these readers. All communication with the second reader is conducted by GPS.

   The second reader is given the original assignment, with marginalia, corrections, summary comments and grade intact, as well as any notes from the instructor pertinent to the general nature of the course or the assignment and grading schemes, etc.
4. The student's and the instructor's names are blanked out to reduce the possibility of prejudice and to help meet the 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. 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.

   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 in favour of 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

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

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

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

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

Revision, May 2013. Start of revision.

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

Revision, May 2013. End of revision.

3.6 Failure Policy

Please refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > section 2.14: Failure Policy* for information regarding the policy and procedures to follow in cases of failure.

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.

4 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.

4.1 Policy on Research Ethics

Please refer to the Policy on Research Ethics available at *www.mcgill.ca/secretariat/policies/research*.

4.2 Regulations on Research Policy

Please refer to the regulations on Research Policy available at *www.mcgill.ca/secretariat/policies/research*.

4.3 Policy on Research Integrity

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

4.4 Guidelines for Research Involving Human Subjects

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

4.5 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*.

4.6 Policy on Intellectual Property

Please refer to the Policy on Intellectual Property available at: *www.mcgill.ca/research/researchers/ip*.

4.7 Regulations Governing Conflicts of Interest

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

4.8 Safety in Field Work

Please refer to the policies on safety in field work available at *www.mcgill.ca/ehs/safetycommittees/fieldworksafety*.

4.9 Office of Sponsored Research

Please refer to the Office of Sponsored Research, available at: *www.mcgill.ca/research/researchers*.

4.10 Postdocs

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

4.11 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/research-associate*.

5 Student Services and Information

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

5.1 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*.

5.1.1 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*

5.1.2 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.

5.2 Student Services – Downtown Campus

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

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

Student Services:

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

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

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

Chaplaincy Service: Concerned with the spiritual and mental well-being of all students.

Brown Student Services Building, Suite 4400
Telephone: 514-398-4104
Email: *chaplaincy@mcgill.ca*
Website: *www.mcgill.ca/students/chaplaincy*

Counselling Service: Assists with psychological, emotional, and interpersonal issues as well as vocational and academic concerns.

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

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

3505 Peel Street
Telephone: 514-398-3217
Email: *firstpeopleshouse@mcgill.ca*
Website: *www.mcgill.ca/fph*

First-Year Office: Helps ease the transition of all students new to McGill. Coordinates "Discover McGill," a one-day, campus-wide University and faculty orientation.

Brown Student Services Building, Suite 2100
Telephone: 514-398-6913
Email: *firstyear@mcgill.ca*
Website: *www.mcgill.ca/firstyear*

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

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

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

Brown Student Services Building, Suite 3215
Telephone: 514-398-4349
Email: *international.students@mcgill.ca*
Website: *www.mcgill.ca/internationalstudents*

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

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

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

Redpath Library Building, 3459 McTavish, Suite RS-56
Telephone: 514-398-6009
TDD: 514-398-8198
Email: *disabilities.students@mcgill.ca*
Website: *www.mcgill.ca/osd*

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

Brown Student Services Building, Suite 3200
General Information: 514-398-6013/6014
Telephone: 514-398-4807 (Scholarships)
Email: *student.aid@mcgill.ca*
Website: *www.mcgill.ca/studentaid*

Tutorial Service: Sponsors an extensive tutorial program for students.

Brown Student Services Building, Suite 4200
Telephone: 514-398-6011
Email: *tutoring.service@mcgill.ca*
Website: *www.mcgill.ca/tutoring*

5.3 Student Services – Macdonald Campus

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

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

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

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

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

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

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 Loan Administrator through the Student Service Centre at Macdonald campus 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), administers mid-term examinations for students registered with the Office for Students with Disabilities, and offers the Winter Coat Project, which provides students with slightly used winter coats and accessories.

5.4 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

5.4.1 Graduate Housing – Downtown

Graduate Housing
University Hall
3473 University Street
Montreal, QC H3A 2A8
Telephone: 514-398-6050
Fax: 514-398-4457
Email: *grad.housing@mcgill.ca*
Website: *www.mcgill.ca/students/housing/downtown-graduate*

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 215 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, 2013 to July 31, 2014 or from January 1, 2014 to July 31, 2014.

5.4.1.1 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 and heating are included in the rent. Apartments are wired for private phone lines and Internet service. Phone and Internet service is not included in the rent and must be arranged through McGill's REZ Voice and Data Service.

5.4.1.2 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.

5.4.2 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 and high-speed network access services, which are available at extra cost.

The EcoResidence accommodates 100 students. This residence will appeal to students who enjoy independent living in self-contained, fully furnished apartments of two or six single-bedroom units. Units are split-level with large, airy common living areas.

5.4.2.1 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 2013–2014 session are $450 per month ($5,400 for the year). Rates for the EcoResidence vary from $460 (12-month lease) to $490 (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 the Link Café, located on the ground floor between the Macdonald-Stewart Building and Barton Library. The Link Café is open for breakfast and lunch during week days only. For budgeting purposes, the cost of meals per session is approximately $3,200.

5.4.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from August 25, 2013 to May 1, 2014. You must vacate your room at the end of the lease term. Only under exceptional circumstances will you be granted permission to arrive prior to the 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.

5.4.2.3 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. The Link Café is located on the ground floor between the Macdonald-Stewart Building and Barton Library and is open Monday through Thursday 8:00 a.m. to 8:00 p.m. and Friday 8:00 a.m. to 3:30 p.m. The Link Café is not open Saturdays, Sundays, or holidays designated by the University.

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

5.4.2.4 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 3:40 p.m.

Daily passes for students are $6 and can be purchased at the Upper Gravel Lot and the Horticulture parking lot. The meter is coin-operated and exact change is required. All students obtaining a daily pass must park in the Horticulture lot, east of the Highway 20 overpass. If you are not sure of the location, you can pick up a map from the Campus Security office in Laird Hall. For more information, see *www.mcgill.ca/transport/parking*.

5.5 Athletics & Recreation

5.5.1 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 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*

5.5.2 Macdonald Campus Athletics & Recreation

Offers a wide range of facilities, activities, and equipment, free of charge. Facilities include a gymnasium, weight room (with fitness trainers on hand four evenings per week), arena, tennis courts, playing fields, and large expanses of green space. Students can participate in instructional, recreational, intramural, and intercollegiate activities. There are nominal fees for instructional courses.

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

Stewart Athletic Complex
Telephone: 514-398-7789
Website: *www.macdonaldcampusathletics.mcgill.ca*

5.6 Ombudsperson for Students

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

The mandate of the Ombudsperson at McGill University is to intervene at the beginning of the complaint process, and to attempt to resolve issues informally before they proceed to more formal processes. To learn more about the role and scope of the Ombudsperson for Students, visit the University Secretariat website at: *www.mcgill.ca/secretariat/policies/students* to consult the mandate of the Office of the Ombudsperson for Students.

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

5.7 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 *Programs, Courses and University Regulations > Faculties & Schools > Faculty of Agricultural and Environmental Sciences* .

5.8 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*

5.9 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*

5.10 Day Care

The McGill Childcare Centre is an independently run centre that can accommodate 106 children, ranging in age from four months to four years. Early application is required as placement is limited, especially for certain age groups.

The Centre is located at:

3491 Peel Street
Montreal, Quebec H3A 1W7
Telephone: 514-398-6943
Website: *www.mcgill.ca/daycare*

A Campus Day Care Centre, located adjacent to the Macdonald campus, is an independently run centre that can accommodate approximately 60 children, ranging in age from four months to five years. Preference is given to the Macdonald campus community. Early application is recommended.

The Centre is located at:

1 Maple Avenue
Ste.-Anne-de-Bellevue, Quebec H9X 2E3
Telephone: 514-398-7951

6 Fees

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

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

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

Revision, July 2013. Start of revision.

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

Revision, July 2013. End of revision.

6.1 Access to Fee Information

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

6.2 Tuition Fees

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

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

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

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

6.2.2 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*.

6.2.3 Tuition Assistance for McGill Staff

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

6.2.4 Staff Dependent Waivers

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

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

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

6.3 Documentation

For more information on documentation, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Graduate* > *Regulations* > *section 2.26: Legal Documents: Why Does McGill Collect Legal Documents from You?*.

6.4 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.

6.4.1 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 of Services for Students, these services are available on the Downtown and Macdonald campuses to help students achieve greater academic, physical, and social well-being.

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

6.4.2 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.

6.4.3 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-fees/non-tuition-charges/insurance* .

6.5 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 assessed the copyright fee, which covers the cost of the annual fee that all Quebec universities are required to pay to Copibec (a consortium that protects the interests of authors and editors) for the right to photocopy materials protected by copyright.

Revision, June 2013. Start of revision.

General Administrative Charge – This fee originated from increases in ancillary fees that were allowed by the Quebec government between 2010 and 2013. The University will now comply with the Quebec government's 2013 regulation on administrative fee increases by applying a 2.6% indexation factor to this charge starting in the Fall 2013. A portion of the amount continues to be directed to Athletics (except in the School of Continuing Studies). As a result, students may see a decrease in their General Administrative Charge to take into account their additional contribution to Athletics.

Revision, June 2013. End of revision.

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

6.6 Other Fees

Revision, July 2013. Start of revision.

Other Fees (rates as of 2013–2014)	
International Student Health and Accident Plan (compulsory)	
Single	$951
Dependent (one student with one dependent)	$2,916
Family (one student with two or more dependents)	$5,547
Application for Admission	
Undergraduate application fees	
All undergraduate programs, excluding Medicine (fee charged to applicants applying to terms after Fall 2011)	$100
Medicine (fee charged to applicants applying to terms after Fall 2011)	$140
Other application fees	
School of Continuing Studies	$65
Special Intensive Language Programs (SCS)	$80
Graduate Studies*	$102.60

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

Undergraduate Admission appeals charge	$100
Late Registration	
After the regular registration deadline (August 14th):	
All eligible returning and new students, except Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.	$125
Special Students, graduate part-time students, Additional Session students, and Thesis Evaluation term students.	$62.50
Late Course Change Fee	$50
Registration Cancellation Fee upon withdrawal (or if newly admitted students, the deposit)	$200
Rereading Examination Paper (refundable if the letter grade is increased)	$35.91
Supplemental Examinations, each written paper	$35.91

Other Fees (rates as of 2013–2014)	
Duplicate ID Card	$25
Late Payment Fee (charged at the end of October for the Fall term, or at the end of February for the Winter term):	
• Balances between $100.01 and $300	$25
• Balances between $300.01 and $1,000	$50
• Balances greater than $1,000	$75
Interest on outstanding balances (rate determined in February, to be applicable on June 1, is 1.24% monthly or 14.88% annually)	
Returned cheque or Pre-Authorized Debit payment** ** 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 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.	$40
Cheque Refund Charge:	
on balances less than $100	$10
on balances $100 and over	$20
Schulich School of Music fees:	
Audition Fee	$61.56
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)	$513
Music Practical Instruction: part-time or Special Student status, **or** 2nd instrument or voice, **or** in excess of quota; 1 hr/wk lessons	$805.41
Music Practical Instruction: part-time or Special Student status, **or** in excess of quota; 1.5 hr/wk lessons (Artist Diploma)	$1,205.55
Music Practical Instruction: part-time or Special status, **or** in excess of quota; Voice Coaching; 1 hr/wk lessons	$564.30
Reinstatement penalty	$150 (see *Cancelling Registration for Non-Payment* in *section 6.9: Other Policies Related to Fees: Overdue Accounts*)

Revision, July 2013. End of revision.

6.7 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/knowingstatus* and pay the required deposit by credit card (Visa 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* for information on payment due dates.

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

Late Payment Charges: If you have an outstanding balance greater than $100 on your account on October 31 (February 28 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*.

6.7.1 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.

6.8 Fees and Withdrawal from the University

If you decide not to attend the term(s) in which you are registered, you must officially withdraw from the University in accordance with *section 2.8: Regulations Concerning University Withdrawal*. **Otherwise, you are liable for all applicable tuition and other fees.**

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

If you stop attending classes without dropping your courses, you are liable for all applicable tuition and other fees. See *section 2.8: Regulations Concerning University Withdrawal*.

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

6.8.1 Fee Refund Deadlines

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

Revision, July 2013. Start of revision.

Note for Graduate and Postdoctoral Studies: See *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Registration > section 2.2.3: 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.

Revision, July 2013. End of revision.

6.8.1.1 Fall Term – up to and including September 24:

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

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

6.8.1.2 Fall Term – after September 24:

No refund.

6.8.1.3 Winter Term – up to and including January 28:

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

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

6.8.1.4 Winter Term – after January 28:

No refund.

* Includes tuition and compulsory student fees.

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

6.8.2 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*.

6.9 Other Policies Related to Fees: Overdue Accounts

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

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

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

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

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

6.9.1 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.

6.9.2 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.

6.9.3 Cancelling Registration for Non-Payment

In accordance with the fee policy stated in *section 6.9: Other Policies Related to Fees: Overdue Accounts*, before the University cancels your future term registration(s), the Student Accounts Office will make all reasonable efforts to notify you if your account is delinquent, or if you owe more than $100 from the previous term. The cancellation is effective the last day of the add/drop period unless you settle the account or make payment arrangements with the University by then. If you pay or make payment arrangements with the Student Accounts Office after the add/drop deadline and you want the University to reinstate your registration for the current or subsequent term(s), you must complete the *Request for Reinstatement* form (*www.mcgill.ca/student-accounts/forms*) and submit it to the Student Accounts Office, which will forward it to Enrolment Services for approval and processing. Your fee account will be charged $150 (Reinstatement Penalty) for the processing of the re-enrolment.

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

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

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

6.11 Other Policies Related to Fees: Deferred Admission

Revision, June 2013. Start of revision.

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.

Revision, June 2013. End of revision.

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

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

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

6.13 Other Policies Related to Fees: 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*.

6.14 Other Policies Related to Fees: Senior Citizens

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

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

If you are taking courses as part of the Quebec Inter-University Transfer (IUT) agreement, you are required to pay the fees at your home university; see *section 2.1.14: 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.

6.16 Students with Sponsors

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

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

6.17 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 add/drop period for each term.

6.18 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.

6.19 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.

6.20 Other Information: Payment Procedures

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

6.21 Other Information: Tax Slips/Receipts

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

6.22 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.L.I.S., 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. Students admitted to the M.B.A. prior to the Fall 2010 term and continuing in their program are subject to the previous fee rate structure, whereby tuition is charged on a per credit basis.

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 *Programs, Courses and University Regulations* publication at *www.mcgill.ca/study*.

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) 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/tuition-fees/tuition-and-fees* for the current fees payable by graduate-level students.

7 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.

7.1 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.

7.2 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.

7.2.1 Browser Compatibility

myMcGill currently supports the latest versions of the following browsers:

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

7.3 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*.

7.4 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*.

7.5 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*.

7.6 Getting Connected

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

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

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

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

Computer Labs: Many faculties and departments offer their students computer labs. For lab locations and software/peripheral availability, see *http://webforms.mcgill.ca/labs*.

7.7 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*.

7.8 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.

7.9 Need Help?

Welcome New Students: Take an interactive guided tour of IT services: at *http://kb.mcgill.ca/it/welcome-students*.

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

7.9.1 Getting Help

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

8 The McGill Writing Centre

The McGill Writing Centre (MWC) offers credit courses in academic writing for both native and non-native speakers of English. In addition to its credit course offerings, the MWC offers non-credit courses, workshops, and individualized tutoring. For further information, please visit the MWC website: *www.mcgill.ca/mwc*.

Courses coded as CEAP (for native speakers of English) and CESL (for non-native speakers of English) may be taken to fulfil language requirements or as electives in some degree programs. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before you take courses outside of your faculty, especially if the courses are part of your program requirements.

List of Undergraduate Courses: (please take note of course number changes)

Previous Course Number	New Course Number	Course Title	Credits
EAPR 250	CEAP 250	Research Essay and Rhetoric	3
ESLN 299	CESL 299	ESL: Academic English Seminar	3
ESLN 300	CESL 300*	ESL: Academic English 2	3
ESLN 400	CESL 400*	ESL: Essay & Critical Thinking	3
ESLN 500	CESL 500*	ESL: Research Essay and Rhetoric	3
EDEC 206	CCOM 206**	Communication in Engineering	3

Notes:

*** Placement tests are required for admission to CESL 300, CESL 400, and CESL 500.** Please consult the MWC website at *www.mcgill.ca/mwc* for details of the date and location of placement tests. **In the case of CEAP 250, students write a brief composition IN CLASS on the first day of classes.**

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

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

List of Graduate Courses: (please take note of course number changes)

Previous Course Number	New Course Number	Course Title	Credits
ESLN 640	CESL 640	Fundamentals of Academic Writing for Graduate Students	3
ESLN 650	CESL 650	Pronunciation & Communication	3
ESLN 660	CESL 660	Pronunciation: Independent Study	N/A
ESLN 690	CESL 690	Writing for Graduate Students	3

Note: CESL courses are not open to students who have taken them previously under the corresponding ESLN codes. CESL graduate courses are not open to postdoctoral fellows.

Course for School of Continuing Studies Students	
CCOM 205	Communications in Management 1

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

8.1 Contact Information for The McGill Writing Centre

The McGill Writing Centre
McLennan-Redpath Library
Redpath Main, Room #02
3459 McTavish Street
Montreal, Quebec H3A 0C9

Telephone: 514-398-7109
Fax: 514-398-7416
Website: *www.mcgill.ca/mwc*
General Inquiries: *mwc@mcgill.ca*

Inquiries concerning CCOM 205 should be directed to:

Prof. Sue Laver

Email: *sue.laver@mcgill.ca*
McLennan-Redpath Library
Redpath Main, Room #03
Telephone: 514-398-2351

Inquiries concerning CESL 299, CESL 300, CESL 400, CESL 640, and CESL 650 should be directed to:

Prof. Carolyn Samuel
Email: *carolyn.samuel@mcgill.ca*
McLennan-Redpath Library
Redpath Main, Room #02F
Telephone: 514-398-1712

Inquiries concerning CCOM 206, CEAP 250, CESL 500, and CESL 690 should be directed to:

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

Administrative inquiries should be directed to *mwc@mcgill.ca*.

9 Resources for Study and Research

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

9.1 Libraries

The McGill Library consists of 12 branch libraries and three special collections located across both campuses. Numbering over six million items, the Library's vast holdings include 2.5 million books, textbooks, and course-readers, thousands of journal titles, vast manuscript and pictorial collections, and thousands of sound and video recordings. The Library's e-resources are extensive, and include over 60,000 e-journals, multimedia, and two million e-books on subjects ranging from early English literature to nutrition.

A comprehensive website (*www.mcgill.ca/library*), an online catalogue, and a wide range of library services link the Library's resources to those who need them for learning, research, and scholarship. Hundreds of databases on topics from art history to zoology guide users to relevant journal articles and research materials, while subject guides on topics like chemistry and social work provide comprehensive and clear direction for users undertaking research. The Library's website also provides access to items such as past examination papers, McGill theses, and foreign newspapers. All electronic resources are available for use from home using the VPN (Virtual Private Network) or laboratories anywhere on the campus—access any time, any place.

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

Although opening hours vary, most libraries are open up to 90 hours per week, and several branch libraries extend opening hours during examination periods, including 24-hour-access to the Humanities and Social Sciences Library. Hundreds of computers are available for email, word-processing, accessing online courses, reading library materials, preparing assignments, and searching the Internet. Designed to enhance the learning experiences of diverse users, the Library's facilities offer a variety of comfortable and attractive spaces, including quiet individual study areas, dynamic e-zones, and group study rooms that can be booked for use. Wireless access is available throughout the library, and all libraries have card-operated printing and copying facilities. Special facilities are available for vision- and hearing-impaired users. Laptops and e-readers are also available for loan.

You can use special library services such as the Electronic Data Resources Service, which supports empirical and statistical research. Unique scholarly materials from the Rare Books and Special Collections are being digitized and theses are being submitted electronically. The Course Reserve collection in each branch library includes copies of textbooks and high-demand items on course reading lists. You can borrow materials from any library and return them anywhere across the system. If you need material not owned by McGill University Library, our Interlibrary Loan & Document Delivery Service will source it for you and pickup is available at any branch.

9.2 University Archives

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

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

The MUA Reading Room is open Monday to Friday, from 9:00 a.m. to 12:30 p.m. and from 1:45 p.m. to 4:45 p.m.; however, appointments are recommended. The MUA website features virtual exhibitions, tools to search the MUA holdings, and a large bank of digitized images.

McGill University Archives
McLennan Library Building – 6th Floor, Room 17B
Telephone: 514-398-3772
Fax: 514-398-8456
Email: *refdesk.archives@mcgill.ca*
Website: *www.archives.mcgill.ca*

9.3 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*

9.4 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*

9.5 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*

9.6 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*.

10 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.

10.1 History

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

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

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

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

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

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

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

10.2 Incorporated and Affiliated Colleges

10.2.1 Incorporated College

Royal Victoria College

3425 University Street, Montreal, QC H3A 2A8

The Royal Victoria College, a non-teaching college of McGill University, provides residential accommodation for both men and women in a co-education environment.

10.2.2 Affiliated Theological Colleges

Montreal Diocesan Theological College

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

Presbyterian College of Montreal

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

United Theological College of Montreal

3521 University Street, Montreal, QC H3A 2A9
Principal: Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton)

The above three colleges train students for the ministry and grant certificates for ordination but they have remitted their degree-granting powers, except with respect to the M.Div. and honorary doctorates, to the University.

10.3 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.

10.4 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.

Revision, June 2013. Start of revision.

All of McGill's degree programs are approved by the Government of Quebec.

Revision, June 2013. End of revision.

10.5 Governance: Board of Governors

10.5.1 The Visitor

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

10.5.2 Board of Governors

Revision, June 2013. Start of revision.

Board of Governors	
Stuart (Kip) Cobbett; B.A., B.C.L.(McG.)	Chair
Anthony C. Masi; A.B.(Colgate), Ph.D.(Brown) (*Interim July 1–Sept. 4, 2013*)	Principal and Vice-Chancellor
Suzanne Fortier; B.Sc., Ph.D.(McG.) (*Effective Sept. 5, 2013*)	Principal and Vice-Chancellor
H. Arnold Steinberg; C.M., B.Com.(McG.), M.B.A.(Harv.), LL.D.(McG.)	Chancellor

Revision, June 2013. End of revision.

10.5.2.1 Members

Members
Michael T. Boychuk; B.Com.(McG.)
Gerald Butts; B.A., M.A.(McG.)
Peter Coughlin; B.Com.(Car.), M.B.A.(W. Ont.)
Ronald Harry Critchley; B.A.(C'dia-Loyola), M.A.(York)
Lili de Grandpré; B.A.(W. Ont.), M.B.A.(McG.)
Kathy Fazel; B.Com.(McG.)
Claude Généreux; B.Eng.(McG.), M.A.(Oxf.)
David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina)
Kenneth Hastings; B.A., Ph.D.(McG.)
Bryan Haynes; B.A., LL.B.(McG.)
Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)
David Kalant; B.Sc.(McG.), Ph.D.(C'dia)
Samuel Minzberg; LL.B.(McG.)

Members
Cynthia Price; B.Com.(McG.)
Martine Turcotte; B.C.L./LL.B.(McG.), M.B.A.(London Business School)
Thierry Vandal; B.Eng., M.B.A.(Montr.)
Ann Vroom; B.A.(McG.)
Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)
TBA
TBA

10.5.2.2 Student Representatives

Student Representatives
Students' Society of McGill (1)
Post-Graduate Students' Society of McGill (1)
Observers
McGill Association of Continuing Education Students (1)
Macdonald Campus Students' Society (1)

10.6 Governance: Members of Senate

10.6.1 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

10.6.2 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)

10.7 Administration

Revision, June 2013. Start of revision.

Administration	
H. Arnold Steinberg; C.M., B.Com.(McG.), M.B.A.(Harv.), LL.D.(McG.)	**Chancellor**
Anthony C. Masi; A.B.(Colgate), Ph.D.(Brown) (*Interim July 1–Sept. 4, 2013*)	**Principal and Vice-Chancellor**
Suzanne Fortier; B.Sc., Ph.D.(McG.) (*Effective Sept. 5, 2013*)	**Principal and Vice-Chancellor**
Anthony C. Masi; A.B.(Colgate), Ph.D.(Brown)	**Provost**
Morton J. Mendelson; B.Sc.(McG.), Ph.D.(Harv.) (*Term ending Aug. 31, 2013*)	**Deputy Provost (Student Life & Learning)**
Ollivier Dyens; B.F.A.(C'dia), M.A., Ph.D.(Montr.) (*Effective Sept. 1, 2013*)	**Deputy Provost (Student Life & Learning)**
Kathleen Massey; B.A.(York), M.A.(R. Roads)	**University Registrar and Executive Director of Enrolment Services**
Jana Luker; B.A.(Guelph), B.Ed., M.Ed.(Tor.)	**Executive Director of Services for Students**
Nathalie M. Cooke; B.A. (Qu.), B.Ed., M.A.(Tor.), M.A. (C'nell), Ph.D.(Tor.)	**Associate Provost (Academic Staff & Priority Initiatives)**
Jan Jorgensen; B.A., M.A.(N. Carolina), Ph.D.(McG.)	**Associate Provost (Faculty Affairs & Resource Allocation)**
Lydia White; B.A., M.A.(Camb.), Ph.D.(McG.)	**Associate Provost (Policies, Procedures & Equity)**
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate & Postdoctoral Studies)**
Chandra Madramootoo; B.Sc., M.Sc., Ph.D.(McG.)	**Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural & Environmental Sciences)**
Ghilaine Roquet; B.A.(UQAM), M.Sc.A.(Montr.)	**Chief Information Officer**
Stephen Strople; B.A.(Dal.), M.A.(York)	**Secretary-General**
Michael Di Grappa; B.A.(C'dia), M.P.P.A.(Col.), M.A.(Harv. Business School)	**Vice-Principal (Administration & Finance)**
Lynne B. Gervais; B.A.(C'dia)	**Associate Vice-Principal (Human Resources)**
Robert Couvrette; B.Sc.(École Poly., Montr., HEC), MPM(UQAM)	**Associate Vice-Principal (University Services)**
Marc Weinstein; B.A., B.C.L., LL.B.(McG.)	**Vice-Principal (Development & Alumni Relations)**
David Eidelman; M.D.,C.M.(McG.), FRCPC, FACP	**Vice-Principal (Health Affairs) and Dean (Faculty of Medicine)**
Sam Benaroya; B.Sc., M.D.,C.M.(McG.)	**Associate Vice-Principal (Health Affairs) and Associate Dean (Inter-Hospital Affairs)**
Rose Goldstein; B.Sc., M.D.,C.M.(McG.)	**Vice-Principal (Research & International Relations)**
Rima Rozen; B.Sc., Ph.D.(McG.)	**Associate Vice-Principal (Research & International Relations)**
Sarah Stroud; B.A.(Harv.), Ph.D.(Princ.)	**Associate Vice-Principal (Research & International Relations)**
Olivier Marcil; B.A.(Sher.), M.A.(Montr.)	**Vice-Principal (External Relations)**

Revision, June 2013. End of revision.

11 Agricultural and Environmental Sciences

11.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

11.2 Graduate and Postdoctoral Studies

11.2.1 Administrative Officers

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

11.2.2 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.

11.2.3 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.

11.3 Important Dates 2013–2014

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

11.4 Graduate Studies at a Glance

11.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

11.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

11.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)

Master of Arts (M.A.)		
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment

Master of Science (M.Sc.)		
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

11.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

11.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

11.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

11.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

11.5 Program Requirements

11.5.1 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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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.

11.5.2 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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*.

11.5.3 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/apply/prepare#program* and contact the relevant department.

11.5.4 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 studies must be approved by GPS before registration. Double counting is not permitted.

11.6 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 permits. 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.

11.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

11.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

11.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

11.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

11.6.4 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* 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*.

11.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

11.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

11.6.7 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.

11.6.8 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.

11.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

11.6.10 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.

Revised – Council of February 9, 2004.

11.6.11 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.

11.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

11.8 Postdoctoral Research

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

11.8.1 Postdocs

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

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

11.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

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

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

11.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

11.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under “Information on the Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows.”

11.8.5 Postdoctoral Research Trainees

Eligibility

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

The category of Postdoctoral Research Trainee is for:

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

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

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

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

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

General Conditions

- The maximum duration is three years;
- the individual must be engaged in full-time research;

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

11.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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

11.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees* for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

11.11 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

11.11.1 Agricultural Economics

11.11.1.1 Location

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

Telephone: 514-398-7820
Email: *gradstudies.macdonald@mcgill.ca*
Website: *http://agrecon.mcgill.ca*

11.11.1.2 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*.

11.11.1.3 Agricultural Economics Admission Requirements and Application Procedures

11.11.1.3.1 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. An application to the Qualifying program makes use of the same electronic application form as for the M.Sc. program.

More information is found at *http://agrecon.mcgill.ca/grad.htm*.

11.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.1.3.2.1 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

11.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: March 31	Fall: Same as Canadian/International
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

11.11.1.4 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 Professors

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

A. Naseem; B.Sc.(McG.), M.Sc.(Penn.), M.A., Ph.D.(Mich.)

11.11.2 Animal Science

11.11.2.1 Location

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

Telephone: 514-398-7794
Fax: 514-398-7964
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/animal*

11.11.2.2 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.

section 11.11.2.5: Master of Science (M.Sc.); Animal Science (Thesis) (45 credits)

Two one-semester courses and three seminar courses at the postgraduate level complement an area of research (resulting in a thesis) under the supervision of one of our staff—many of whom are leaders in their respective fields. Entrance to this program is highly competitive, requiring an excellent B.Sc. and letters of reference. Graduates of this program are well prepared for careers in the animal industry, the pharmaceutical sector, and many varied fields in biotechnology.

section 11.11.2.6: Master of Science, Applied (M.Sc.A.); Animal Science (Non-Thesis) (45 credits)

This non-thesis degree is oriented to animal scientists already working in industry or government, to undergraduate students inspired by concepts in sustainable and integrated animal agriculture, to project leaders interested in animal resource management, and to veterinarians. The program provides graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

section 11.11.2.7: Doctor of Philosophy (Ph.D.); Animal Science

Since the Ph.D. is primarily a research degree, the amount of coursework required will normally be considerably less than is the case for the M.Sc. It depends on the background of the individual student and must be approved by the student's Advisory Committee. At a minimum, it includes two seminar courses at the graduate level and the Ph.D. Comprehensive Examination as an admission to candidacy for the Ph.D. As with the M.Sc. (Thesis), admission is based on an excellent track record. Suitable candidates are encouraged to contact potential supervisors within their chosen area of interest. Applicants should, however, be aware that no professor is in a position to accept students without formal approval of the application by the Graduate Admissions Committee.

section 11.11.2.8: 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.

11.11.2.3 Animal Science Admission Requirements and Application Procedures

11.11.2.3.1 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.

11.11.2.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.2.3.2.1 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.

11.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: March 15	Same as Canadian/International
Winter: Sept. 15	Winter: Sept. 15	Same as Canadian/International
Summer: N/A	Summer: N/A	N/A

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.2.4 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.(Davis)

E. Donefer; B.Sc., M.Sc.(C'nell), 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)

J.E. Moxley; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(C'nell)

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.(C'nell) (*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.(C'nell)

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

H. Baldassarre, E. Ibeagha-Awemu, P. Lacasse, D. Lefebvre, B. Murphy

11.11.2.5 Master of Science (M.Sc.); Animal Science (Thesis) (45 credits)

Thesis Courses (36 credits)

ANSC 680	(9)	M.Sc. Thesis 1
ANSC 681	(9)	M.Sc. Thesis 2
ANSC 682	(9)	M.Sc. Thesis 3
ANSC 683	(9)	M.Sc. Thesis 4

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.

ANSC 695	(1)	MSc General Topic Seminar
ANSC 696	(1)	MSc Research Proposal Seminar
ANSC 697	(1)	MSc Research Results Seminar

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

11.11.2.6 Master of Science, Applied (M.Sc.A.); Animal Science (Non-Thesis) (45 credits)

The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

Research Project (15 credits)

ANSC 643	(3)	Project 1
ANSC 644	(3)	Project 2
ANSC 645	(3)	Project 3
ANSC 646	(3)	Project 4
ANSC 647	(3)	Project 5

Complementary Courses (30 credits)

15-30 credits from the following:

AEMA 610	(3)	Statistical Methods 2

ANSC 504	(3)	Population Genetics
ANSC 530	(3)	Experimental Techniques in Nutrition
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
ANSC 600	(3)	Advanced Eukaryotic Cells and Viruses
ANSC 604	(3)	Advanced Animal Biotechnology
ANSC 605	(3)	Estimation: Genetic Parameters
ANSC 606	(3)	Selection Index and Animal Improvement
ANSC 622	(3)	Selected Topics in Molecular Biology
ANSC 635	(3)	Vitamins and Minerals in Nutrition
ANSC 636	(3)	Analysis - Animal Breeding Research Data
ANSC 691	(3)	Special Topic: Animal Sciences
ANSC 692	(3)	Topic in Animal Sciences 1

0-15 credits selected from 500- and 600-level courses from across the Faculty (with the possibility of up to 9 credits from outside the Faculty if deemed appropriate by the supervisor).

11.11.2.7 Doctor of Philosophy (Ph.D.); Animal Science

Since the Ph.D. is primarily a research degree, the amount of coursework required will depend on the background of the individual student, and must be approved by the student's advisory committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

ANSC 701	(0)	Doctoral Comprehensive Examination

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

11.11.2.8 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)

ANSC 701	(0)	Doctoral Comprehensive Examination
ANSC 797	(1)	Animal Science Seminar 3
ANSC 798	(1)	Animal Science Seminar 4
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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.

11.11.3 Bioresource Engineering

11.11.3.1 Location

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

Telephone: 514-398-7774
Fax: 514-398-8387
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/bioeng*

11.11.3.2 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 11.11.3.5: 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 11.11.3.6: 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 11.11.3.7: 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 11.11.3.8: 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.

section 11.11.3.9: 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 11.11.3.10: 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 11.11.3.11: 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 11.11.3.12: 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 11.11.3.13: 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 11.11.3.14: Doctor of Philosophy (Ph.D.); Bioresource Engineering

Please contact the Department for more information about this program.

section 11.11.3.15: 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 11.11.3.16: 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 11.11.3.17: 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.

11.11.3.3 Bioresource Engineering Admission Requirements and Application Procedures

11.11.3.3.1 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.

11.11.3.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.3.3.2.1 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.

11.11.3.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: April 30	Fall: Open
Winter: Nov. 15	Winter: Sept. 30	Winter: Open
Summer: March 30	Summer: Feb. 28	Summer: Open

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.3.4 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.) (*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) (*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

11.11.3.5 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

BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication

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.

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

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 (11 credits)

BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication
ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (3 credits)

Chosen from 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.

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

Thesis (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 (11 credits)

BIOL 640	(3)	Tropical Biology and Conservation
BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication
ENVR 610	(3)	Foundations of Environmental Policy

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.

11.11.3.8 Master of Science (M.Sc.); Bioresource Engineering (Non-Thesis) — Integrated Water Resources Management (45 credits)

Research Project (6 credits)

BREE 631	(6)	Integrated Water Resources Management Project

Required Courses (27 credits)

BREE 503	(3)	Water: Society, Law and Policy
BREE 510	(3)	Watershed Systems Management
BREE 630	(13)	Integrated Water Resources Management Internship
BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 655	(3)	Integrated Water Resources Management Research Visits
PARA 515	(3)	Water, Health and Sanitation

Elective Courses (12 credits)

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

11.11.3.9 Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) (45 credits)

The non-thesis option is aimed toward individuals already employed in industry or seeking to improve their skills in specific areas (soil and water/structures and environment/waste management/environment protection/post-harvest technology/food process engineering/environmental engineering) in order to enter the engineering profession at a higher level.

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc. Applied program.

Each candidate for this option is expected to establish and maintain contact with his/her academic adviser in the Department of Bioresource Engineering some time before registration in order to clarify objectives, investigate project possibilities and plan a program of study.

Research Project (12 credits)

BREE 671	(6)	Project 1
BREE 672	(6)	Project 2

Required Courses (2 credits)

BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2

Complementary Courses (31 credits)

31 credits of 500-, 600-, or 700-level courses in bioresource engineering and other fields* to be determined in consultation with the Project Director.

* Note: 12 of the 31 credits are expected to be from collaborative departments, e.g., food process engineering: 12 credits divided between Food Science and Chemical Engineering.

11.11.3.10 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)

BREE 671	(6)	Project 1
BREE 672	(6)	Project 2

Required Courses (8 credits)

BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
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 (25 credits)

3 credits from the following courses below:

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.

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

11.11.3.11 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)

BREE 671*	(6)	Project 1

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.

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

Required Courses (6 credits)

BREE 600	(1)	Project/Internship Proposal
BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication

Complementary Courses (39 credits)

Minimum of 3 credits of graduate-level Statistics in any department

Minimum of 9 credits from courses selected from the following:

BREE 518	(3)	Bio-Treatment of Wastes
BREE 519	(3)	Advanced Food Engineering
BREE 520	(3)	Food, Fibre and Fuel Elements
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
BREE 535	(3)	Food Safety Engineering
BREE 603	(3)	Advanced Properties: Food and Plant Materials

Minimum of 12 credits selected from the following:

BREE 601	(6)	Integrated Food and Bioprocessing Internship 1
BREE 602	(6)	Integrated Food and Bioprocessing Internship 2
BREE 671	(6)	Project 1
BREE 672	(6)	Project 2

Minimum of 3 credits selected from the following:

AGEC 630	(3)	Food and Agricultural Policy
AGEC 633	(3)	Environmental and Natural Resource Economics
AGEC 642	(3)	Economics of Agricultural Development
AGRI 510	(3)	Professional Practice

Minimum of 3 credits selected from the following:

BTEC 502	(3)	Biotechnology Ethics and Society
FDSC 519	(3)	Advanced Food Processing
FDSC 535	(3)	Food Biotechnology

FDSC 538	(3)	Food Science in Perspective
GEOG 515	(3)	Contemporary Dilemmas of Development
NUTR 501	(3)	Nutrition in Developing Countries

9 credits of any relevant graduate-level course chosen in consultation with the Program Director.

11.11.3.13 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.

11.11.3.14 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.

11.11.3.15 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.

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
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

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

11.11.3.16 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

BIOL 640	(3)	Tropical Biology and Conservation
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
ENVR 610	(3)	Foundations of Environmental Policy

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.

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

Required Courses (9 credits)

BREE 503	(3)	Water: Society, Law and Policy
NRSC 514	(3)	Freshwater Ecosystems
PARA 515	(3)	Water, Health and Sanitation

Complementary Courses (6 credits)

3 credits from the following:

BREE 533	(3)	Water Quality Management
CIVE 550	(3)	Water Resources Management

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

11.11.4 Biotechnology

11.11.4.1 Location

Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada

Telephone: 514-398-7725
Fax: 514-398-7857
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/biotechgradprog*

11.11.4.2 About Biotechnology

Non-thesis Graduate Certificate and M.Sc.(Applied) degree in 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 11.11.4.5: 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

section 11.11.4.5: Master of Science, Applied (M.Sc.A.); Biotechnology (Non-Thesis) (45 credits)

ranging from positions as research assistants and/or technicians in biomedical or pharmaceutical laboratories to managerial or supervisory positions. They may also pursue a career in the business of biotechnology including patent and intellectual property management.

section 11.11.4.6: Graduate Certificate in Biotechnology (16 credits)

Candidates must possess a bachelor's degree in the biological/molecular sciences or an equivalent program. This is a short, intense program for students wishing to deepen their understanding of biotechnology and gain hands-on experience via an intensive laboratory course using the latest molecular biology techniques. Students can choose from a wide range of complementary courses given throughout the McGill campuses to “design” their own program toward a future career choice. Graduates will find employment in research or industrial laboratories as assistants and/or technicians.

11.11.4.3 Biotechnology Admission Requirements and Application Procedures

11.11.4.3.1 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.

Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected, may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, **but not as candidates for a degree**. Only one Qualifying year is permitted. **Successful completion of a Qualifying Program does not guarantee admission to a degree program.**

Financial Support – **Financial support 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*.

11.11.4.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.4.3.2.1 Additional Requirements

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

- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Biotechnology website at *www.mcgill.ca/biotechgradprog/admissions* for full details of the admission process.
- The GRE is not required, but it is highly recommended.

11.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: N/A
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

It may be necessary to delay review of the applicant’s file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.4.4 Biotechnology Faculty

Biotechnology is a program offered through the Institute of Parasitology. For a complete faculty listing, please refer to *section 11.11.8.4: Parasitology Faculty*.

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

Research Project (16 credits)

BTEC 622	(2)	Biotechnology Research Project 1
BTEC 623	(6)	Biotechnology Research Project 2
BTEC 624	(6)	Biotechnology Research Project 3

BTEC 625	(2)	Biotechnology Research Project 4

Required Courses (17 credits)

BIOT 505	(3)	Selected Topics in Biotechnology
BTEC 501	(3)	Bioinformatics
BTEC 619	(4)	Biotechnology Laboratory 2
BTEC 620	(4)	Biotechnology Laboratory 1
BTEC 621	(3)	Biotechnology Management

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.

11.11.4.6 Graduate Certificate in Biotechnology (16 credits)

Required Courses (10 credits)

BIOT 505	(3)	Selected Topics in Biotechnology
BTEC 620	(4)	Biotechnology Laboratory 1
BTEC 621	(3)	Biotechnology Management

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
FDSC 535	(3)	Food Biotechnology

11.11.5 Dietetics and Human Nutrition

11.11.5.1 Location

School of Dietetics and Human Nutrition
Macdonald-Stewart Building, Room MS2-039
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada

Telephone: 514-398-7762
Fax: 514-398-7739
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/dietetics*

11.11.5.2 About Dietetics and Human Nutrition

In the School of Dietetics and Human Nutrition, cutting-edge nutrition research is conducted by its nine tenure-track professors and six faculty lecturers in all areas recommended by North American Nutrition Societies. These include molecular and cellular nutrition, clinical, community, and international nutrition. Domains emphasized by School researchers include: 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 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 11.11.5.5: 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 11.11.5.7: Master of Science, Applied (M.Sc.A.); Human Nutrition (Non-Thesis) — Practicum (45 credits) **and** ***section 11.11.5.8: 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 11.11.5.6: 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 11.11.5.9: 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 11.11.5.10: Graduate Diploma in Registered Dietitian Credentialing (30 credits)

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,

section 11.11.5.10: Graduate Diploma in Registered Dietitian Credentialing (30 credits)

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.

11.11.5.3 Dietetics and Human Nutrition Admission Requirements and Application Procedures

11.11.5.3.1 Admission Requirements

M.Sc. Thesis and M.Sc. Applied (Project or Practicum)

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. All eligible candidates to the M.Sc. (Applied) program may select the project option; those who have completed a dietetic internship and six months' work experience are eligible to apply for a practicum option.

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.

Graduate Diploma in R.D. Credentialing

For information on admission requirements, applicants must contact Dr. Maureen Rose in the School of Dietetics and Human Nutrition.

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.

11.11.5.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.5.3.2.1 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 applicants to the School of Dietetics and Human Nutrition who are submitting non-Canadian and non-U.S. transcripts.

11.11.5.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 1	Fall: March 1	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Aug. 31	Winter: Same as Canadian/International
Summer: Feb. 15	Summer: Dec. 15	Summer: Same as Canadian/International

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.5.4 Dietetics and Human Nutrition Faculty

Director

Kristine G. Koski

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.) (*William Dawson Scholar*)

Associate Professors

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. (*joint appt. with the Division of Experimental Medicine, Faculty of Medicine*)

Stan Kubow; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)

Grace S. Marquis; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(C'nell) (*Canada Research Chair*)

Hugo Melgar-Qui onez; 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, Réjeanne Gougeon, L. John Hoffer, Larry Lands, Errol B. Marliss, José Morais, Celia Rodd, Thomas Schricker, Jean-François Yale

Parasitology: Marilyn E. Scott

Adjunct Professors

Kevin A. Cockell (*Health Canada*)

Grace Egeland; B.Sc.(Luther College), Ph.D.(Pitt.)

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

Thesis Courses (31 credits)

NUTR 680	(6)	Human Nutrition M.Sc. Thesis 1
NUTR 681	(6)	Human Nutrition M.Sc. Thesis 2
NUTR 682	(9)	Human Nutrition M.Sc. Thesis 3
NUTR 683	(10)	Human Nutrition M.Sc. Thesis 4

Required Courses (2 credits)

NUTR 695	(1)	Human Nutrition Seminar 1
NUTR 696	(1)	Human Nutrition Seminar 2

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

11.11.5.6 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

11.11.5.7 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.

11.11.5.8 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.

11.11.5.9 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

NUTR 701	(0)	Doctoral Comprehensive Examination
NUTR 797	(1)	Human Nutrition Seminar 3
NUTR 798	(1)	Human Nutrition Seminar 4

11.11.5.10 Graduate Diploma in Registered Dietitian Credentialing (30 credits)

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)

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

11.11.6 Food Science and Agricultural Chemistry

11.11.6.1 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: 514-398-7898
Fax: 514-398-7977
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/foodscience*

11.11.6.2 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 11.11.6.6: 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 11.11.6.7: 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 11.11.6.5: 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 11.11.6.8: 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 proceeding well during their first year, they may be permitted to proceed to the Ph.D. degree. Entry into the Ph.D. graduate program hinges on the availability of supervisory staff and financing.

11.11.6.3 Food Science and Agricultural Chemistry Admission Requirements and Application Procedures

11.11.6.3.1 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.

11.11.6.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.6.3.2.1 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.

11.11.6.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: March 1	Fall: Same as Canadian/International
Winter: Nov. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: March 30	Summer: Jan. 15	Summer: Same as Canadian/International

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.6.4 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.)

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)

B.K. Simpson; B.Sc.(Ghana), Ph.D.(Nfld.)

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.)

11.11.6.5 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.

11.11.6.6 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)	Enzyme Thermodynamics/Kinetics
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.

11.11.6.7 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

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.

11.11.6.8 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

11.11.7 Natural Resource Sciences

11.11.7.1 Location

Department of Natural Resource Sciences
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada

Telephone: 514-398-7890
Fax: 514-398-7990
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/nrs*

11.11.7.2 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 through the Department of Economics with Agricultural Economics as a field of specialization. An interdisciplinary option in Bioinformatics for doctoral students is 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 11.11.7.5: 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 11.11.7.6: Master of Science (M.Sc.); Entomology (Thesis) (45 credits)

Please contact the Department for more information about this program.

section 11.11.7.7: Master of Science (M.Sc.); Entomology (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 11.11.7.8: Master of Science (M.Sc.); Entomology (Thesis) — Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 11.11.7.9: Master of Science (M.Sc.); Microbiology (Thesis) (45 credits)

Please contact the Department for more information about this program.

section 11.11.7.10: Master of Science (M.Sc.); Microbiology (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 11.11.7.11: Master of Science (M.Sc.); Renewable Resources (Thesis) (45 credits)

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

section 11.11.7.12: Master of Science (M.Sc.); Renewable Resources (Thesis) — Environment (46 credits)

Please contact the Department for more information about this program.

section 11.11.7.13: Master of Science (M.Sc.); Renewable Resources (Thesis) — Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 11.11.7.14: Master of Science (M.Sc.); Renewable Resources (Non-Thesis) — Environmental Assessment (45 credits)

This program is not offered in 2013–2014.

Ph.D. Degrees in Entomology, Microbiology, or Renewable Resources

(Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology)

section 11.11.7.15: Doctor of Philosophy (Ph.D.); Entomology

Please contact the Department for more information about this program.

section 11.11.7.16: Doctor of Philosophy (Ph.D.); Entomology — Environment

Please contact the Department for more information about this program.

section 11.11.7.17: Doctor of Philosophy (Ph.D.); Entomology — Neotropical Environment

Please contact the Department for more information about this program.

section 11.11.7.18: Doctor of Philosophy (Ph.D.); Microbiology

Please contact the Department for more information about this program.

section 11.11.7.19: Doctor of Philosophy (Ph.D.); Microbiology — Bioinformatics

Please contact the Department for more information about this program.

section 11.11.7.20: Doctor of Philosophy (Ph.D.); Microbiology — Environment

Please contact the Department for more information about this program.

section 11.11.7.21: Doctor of Philosophy (Ph.D.); Renewable Resources

Please contact the Department for more information about this program.

section 11.11.7.22: Doctor of Philosophy (Ph.D.); Renewable Resources — Environment

Please contact the Department for more information about this program.

section 11.11.7.23: Doctor of Philosophy (Ph.D.); Renewable Resources — Neotropical Environment

Please contact the Department for more information about this program.

11.11.7.3 Natural Resource Science Admission Requirements and Application Procedures

11.11.7.3.1 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 2013–2014 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.

11.11.7.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.7.3.2.1 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.

11.11.7.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Feb. 15	Fall: Feb. 15	Fall: Feb. 15
Winter: Nov. 15	Winter: Sept. 30	Winter: Same as Canadian/International
Summer: March 30	Summer: Feb. 28	Summer: Same as Canadian/International

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.7.4 Natural Resource Sciences Faculty

Chair

J.W. Fyles

Graduate Program Director

T.A. Wheeler

Program Director - Agricultural Economics

J.C. Henning

Emeritus Professors

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

A.F. MacKenzie; B.S.A., M.Sc.(Sask.), Ph.D.(C'nell); *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

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

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

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*

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.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.); *Soil Science*

Associate Professors

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*

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

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

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

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*)

A. Naseem; B.Sc.(McG.), M.Sc., Ph.D.(Mich.); *Agricultural Economics*

C. Solomon; B.Sc.(C'nell), 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

M.A. Bouchard

K. Fernie

C. Greer

D. Houle

J. Macdonald

J. Noceraa

G. Sunahara

11.11.7.5 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)

AGEC 691	(6)	M.Sc. Thesis 1
AGEC 692	(3)	M.Sc. Thesis 2
AGEC 693	(6)	M.Sc. Thesis 3
AGEC 694	(6)	M.Sc. Thesis 4
AGEC 695	(6)	M.Sc. Thesis 5

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.

11.11.7.6 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.

11.11.7.7 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.

11.11.7.8 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.

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

Thesis Courses (36 credits)

NRSC 691	(12)	M.Sc. Thesis Research 1
NRSC 692	(12)	M.Sc. Thesis Research 2
NRSC 693	(12)	M.Sc. Thesis Research 3

Required Courses (3 credits)

NRSC 643	(1)	Graduate Seminar 1
NRSC 644	(1)	Graduate Seminar 2
NRSC 651	(1)	Graduate Seminar 3

Complementary Courses (6 credits)

Two 3-credit 500-, 600-, or 700-level courses; normally one of these will be a course in statistics.

11.11.7.10 Master of Science (M.Sc.); Microbiology (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 Course (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.

11.11.7.11 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)

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 level or higher recommended by the supervisory committee; one of which must be in quantitative methods/techniques.

11.11.7.12 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.

11.11.7.13 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.

11.11.7.14 Master of Science (M.Sc.); Renewable Resources (Non-Thesis) — Environmental Assessment (45 credits)

This program is not offered in 2013-2014.

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.

11.11.7.15 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.

11.11.7.16 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.

11.11.7.17 Doctor of Philosophy (Ph.D.); Entomology — Neotropical Environment

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
NRSC 701	(0)	Ph.D. Comprehensive Examination
NRSC 751	(0)	Graduate Seminar 4
NRSC 752	(0)	Graduate Seminar 5
NRSC 753	(0)	Graduate Seminar 6

NRSC 754	(0)	Graduate Seminar 7

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

Elective Courses

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

11.11.7.18 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

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.

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

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
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

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.

11.11.7.20 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.

11.11.7.21 Doctor of Philosophy (Ph.D.); Renewable Resources

Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

NRSC 701	(0)	Ph.D. Comprehensive Examination

NRSC 751	(0)	Graduate Seminar 4
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.

11.11.7.22 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

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

11.11.7.23 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.

11.11.8 Parasitology

11.11.8.1 Location

Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada

Telephone: 514-398-7722
Fax: 514-398-7857
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/parasitology*

11.11.8.2 About Parasitology

M.Sc. and Ph.D. thesis research degrees in Parasitology, with Bioinformatics and Environment options; and non-thesis Graduate Certificate and M.Sc. (Applied) degree in Biotechnology.

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 and a FACSAria cell sorting facility are 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

section 11.11.8.5: Master of Science (M.Sc.); Parasitology (Thesis) (46 credits)

A research project is undertaken in an area of parasitology under the direction of a supervisor, and a thesis is produced. Coursework is minimal. Graduates have gone on to medical school, to teaching positions, or have found employment in scientific fields.

section 11.11.8.6: Master of Science (M.Sc.); Parasitology (Thesis) — Bioinformatics (47 credits)

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.

section 11.11.8.7: Master of Science (M.Sc.); Parasitology (Thesis) — Environment (46 credits)

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.

section 11.11.8.8: Doctor of Philosophy (Ph.D.); Parasitology

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

section 11.11.8.9: Doctor of Philosophy (Ph.D.); Parasitology — Bioinformatics

An advanced, original research project in an area of parasitology is undertaken supervised by faculty staff, and a thesis is produced. Additional coursework in the field of bioinformatics is required for this option. Graduates are well suited for a teaching or research career, especially where there is particular emphasis on the science of bioinformatics.

section 11.11.8.10: Doctor of Philosophy (Ph.D.); Parasitology — Environment

An advanced, original research project in an area of parasitology is undertaken supervised by faculty staff, and a thesis is produced. There is additional coursework on environmental topics for this option. Graduates are prepared for careers in academia, industry, or government, especially where the focus is on environmental protection or management of valuable natural resources, such as water.

11.11.8.3 Parasitology Admission Requirements and Application Procedures

11.11.8.3.1 Admission Requirements

Candidates for either the M.Sc. or the Ph.D. thesis research degree should possess a bachelor's degree in the biological or medical sciences with a minimum cumulative grade point average 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.

11.11.8.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.8.3.2.1 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* for full details.

11.11.8.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: April 30	Fall: Same as Canadian/International
Winter: November 15	Winter: September 30	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

It may be necessary to delay review of the applicant's file until the following admittance period if application materials including supporting documents are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.8.4 Parasitology Faculty

Director

Timothy G. Geary

Professors

John P. Dalton; B.Sc., Ph.D.(Dublin) (*Canada Research Chair in Infectious Diseases*)

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 Professor

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

Florence Dzierszinski; B.Sc., M.Sc., Ph.D.(Lille, France)

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

David Marcogliese; B.Sc.(C'dia), M.Sc.(Dal.), Ph.D.(Wake Forest Univ. N. Carolina)

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

Thesis Courses (32 credits)

PARA 687	(10)	Thesis Research 1
PARA 688	(10)	Thesis Research 2
PARA 689	(12)	Thesis Research 3

Required Courses (14 credits)

PARA 600	(4)	Thesis Proposal for M.Sc
PARA 606	(2)	Parasitology Seminar
PARA 607	(2)	Parasitology Research Seminar
PARA 635	(3)	Cell Biology and Infection
PARA 655	(3)	Host-Parasite Interactions

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

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

Thesis Courses (24 credits)

PARA 688	(10)	Thesis Research 2

PARA 689	(12)	Thesis Research 3
PARA 690	(2)	Thesis Research 4

Required Courses (17 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
PARA 600	(4)	Thesis Proposal for M.Sc
PARA 606	(2)	Parasitology Seminar
PARA 607	(2)	Parasitology Research Seminar
PARA 635	(3)	Cell Biology and Infection
PARA 655	(3)	Host-Parasite Interactions

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.

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

Thesis Courses (26 credits)

PARA 687	(10)	Thesis Research 1
PARA 688	(10)	Thesis Research 2
PARA 691	(6)	Thesis Research 5

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 600	(4)	Thesis Proposal for M.Sc
PARA 606	(2)	Parasitology Seminar
PARA 607	(2)	Parasitology Research Seminar

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.

11.11.8.8 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)

PARA 635	(3)	Cell Biology and Infection
PARA 655	(3)	Host-Parasite Interactions
PARA 700	(0)	Thesis Proposal for Ph.D
PARA 710	(2)	Parasitology Ph.D. Seminar 1
PARA 711	(2)	Parasitology Ph.D. Seminar 2

* 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.

11.11.8.9 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)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
PARA 635	(3)	Cell Biology and Infection
PARA 655	(3)	Host-Parasite Interactions
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)

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.

11.11.8.10 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
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

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

11.11.9 Plant Science

11.11.9.1 Location

Department of Plant Science
Macdonald Campus
21,111 Lakeshore Road

Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada

Telephone: 514-398-7851
Fax: 514-398-7897
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/plant*

11.11.9.2 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 11.11.9.5: 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 11.11.9.6: 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 11.11.9.7: 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 11.11.9.8: 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 11.11.9.9: 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 11.11.9.10: 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 11.11.9.11: 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 11.11.9.12: 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 11.11.9.13: 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 11.11.9.14: 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.

11.11.9.3 Plant Science Admission Requirements and Application Procedures

11.11.9.3.1 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.

11.11.9.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

11.11.9.3.2.1 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.

11.11.9.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: March 1	Summer: Jan. 15	Summer: Same as Canadian/International

It may be necessary to delay review of the applicant's file until the following admittance period if application materials, including supporting documents, are received after the application deadlines. International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

11.11.9.4 Plant Science Faculty

Chair

P. Seguin

Emeritus Professors

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

R.H. Estey; B.Ed.(New Br.), M.S.(Maine), D.I.C.(Imp. Coll.), B.Sc.(Agr.), Ph.D.(McG.), F.L.S.

Professors

P. Dutilleul; L.Sc., D.Sc.(Louvain)

D.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.(Flor.)

P. Seguin; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Minn.)

K. Stewart; B.Sc.(Agr.), (Br. Col.), Ph.D.(R'dg) (*Post-Retirement*)

M. Stromvik; B.A., M.Sc.(Stockholm), Ph.D.(Ill.)

M. Waterway; B.A.(Grand Rapids), M.S.(Wisc.), Ph.D.(C'nell)

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

11.11.9.5 Master of Science (M.Sc.); Plant Science (Thesis) (45 credits)

Thesis Courses (39 credits)

PLNT 664	(12)	M.Sc. Thesis 1

PLNT 665	(12)	M.Sc. Thesis 2
PLNT 666	(15)	M.Sc. Thesis 3

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Complementary Courses (6 credits)

Two graduate-level courses

Additional courses may be required at the discretion of the candidate's supervisory committee.

11.11.9.6 Master of Science (M.Sc.); Plant Science (Thesis) — Bioinformatics (48 credits)

Thesis Courses (39 credits)

PLNT 664	(12)	M.Sc. Thesis 1
PLNT 665	(12)	M.Sc. Thesis 2
PLNT 666	(15)	M.Sc. Thesis 3

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
PLNT 691	(0)	Research Horizons in Plant Science 2

Complementary Courses (6 credits)

Chosen from the following:

BINF 511	(3)	Bioinformatics for Genomics
BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

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

11.11.9.7 Master of Science (M.Sc.); Plant Science (Thesis) — Environment (48 credits)

Thesis Courses (39 credits)

PLNT 664	(12)	M.Sc. Thesis 1
PLNT 665	(12)	M.Sc. Thesis 2
PLNT 666	(15)	M.Sc. Thesis 3

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (3 credits)

Chosen from one of the following courses:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

Additional courses may be required at the discretion of the candidate's Supervisory Committee.

11.11.9.8 Master of Science (M.Sc.); Plant Science (Thesis) — Neotropical Environment (48 credits)

Candidates must participate in the STRI seminar series when in residence in Panama, and in the MSE-Panama Symposium Presentation in Montreal.

Thesis Courses (39 credits)

PLNT 664	(12)	M.Sc. Thesis 1
PLNT 665	(12)	M.Sc. Thesis 2
PLNT 666	(15)	M.Sc. Thesis 3

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (6 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy

Elective Courses (3 credits)

3 credits at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Additional courses may be required at the discretion of the candidate's supervisory committee.

11.11.9.9 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.

11.11.9.10 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.

11.11.9.11 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
PLNT 701*	(0)	Doctoral Comprehensive Examination

Complementary Courses (6 credits)

Two courses to be chosen from the following:

BINF 511	(3)	Bioinformatics for Genomics
BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics

PHGY 603	(3)	Systems Biology and Biophysics

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

11.11.9.12 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

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (6 credits)

* Must be taken within the first year of registering

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
PLNT 701*	(0)	Doctoral Comprehensive Examination

Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Complementary Courses (3 credits)

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

11.11.9.13 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.

11.11.9.14 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

12 Faculty of Arts

12.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

12.2 Graduate and Postdoctoral Studies

12.2.1 Administrative Officers

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

12.2.2 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.

12.2.3 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.

12.3 Important Dates 2013–2014

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

12.4 Graduate Studies at a Glance

12.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

12.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

12.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)

Master of Arts (M.A.)		
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment

Master of Science (M.Sc.)		
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

12.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

12.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

12.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

12.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

12.5 Program Requirements

12.5.1 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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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.

12.5.2 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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*.

12.5.3 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/apply/prepare#program* and contact the relevant department.

12.5.4 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 studies must be approved by GPS before registration. Double counting is not permitted.

12.6 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 permits. 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.

12.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

12.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

12.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

12.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

12.6.4 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* 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*.

12.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

12.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

12.6.7 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.

12.6.8 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.

12.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

12.6.10 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.

Revised – Council of February 9, 2004.

12.6.11 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.

12.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

12.8 Postdoctoral Research

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

12.8.1 Postdocs

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

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

12.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

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

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

12.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

12.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

12.8.5 Postdoctoral Research Trainees

Eligibility

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

The category of Postdoctoral Research Trainee is for:

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

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

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

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

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

General Conditions

- The maximum duration is three years;
- the individual must be engaged in full-time research;

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

12.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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

12.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees* for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

12.11 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

12.11.1 Anthropology

12.11.1.1 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*

12.11.1.2 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 12.11.1.5: 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 12.11.1.6: 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 12.11.1.7: 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 12.11.1.8: 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 12.11.1.9: Master of Arts (M.A.); Anthropology (Non-Thesis) (45 credits)

This program is not offered in 2013–2014.

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 12.11.1.10: 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.

M.A. Degree with Research Paper (45 credits)

This program is not offered in 2013–2014.

section 12.11.1.11: 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 12.11.1.12: 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

section 12.11.1.12: Doctor of Philosophy (Ph.D.); Anthropology — Neotropical Environment

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.

12.11.1.3 Anthropology Admission Requirements and Application Procedures

12.11.1.3.1 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.

12.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.1.3.2.1 Additional Requirements

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

- GRE results
- TOEFL – for non-anglophone and non-francophone applicants
- Written Work – can be in the form of a graded paper or a chapter from a thesis and must be in English or French
- Statement of Purpose
- Curriculum Vitae
- Miscellaneous Information Sheet (available at *www.mcgill.ca/anthropology/graduate/admissions*)

12.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: The Department Admissions Committee announces its selections by mid-March.

12.11.1.4 Anthropology Faculty

Chair

TBA

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.)

Jérôme Rousseau; M.A.(Montr.), Ph.D.(Cant.)

Philip Carl Salzman; A.B.(Antioch), M.A., Ph.D.(Chic.)

Professors

Allan Young; B.A.(Penn.), M.A.(Wash.), Ph.D.(Penn.) (*joint appt. with Social Studies of Medicine*)

Associate Professors

Michael S. Bisson; B.A., M.A., Ph.D.(Calif.)

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.)

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.)

Ismael Vaccaro; B.A.(Barcelona), M.A.(E.H.E.SS. Paris), M.A., Ph.D.(Wash.) (*joint appt. with McGill School of Environment*)

Assistant Professors

Gwen Bennett; B.A.(N'western), M.A., Ph.D.(Calif.-LA) (*joint appt. with East Asian Studies*)

Eduardo O. Kohn; B.A.(Oberlin), M.A., Ph.D.(Wisc.-Madison)

Katherine Lemons; B.A.(Stan.), M.A., Ph.D.(Calif., Berk.)

Margaret Lisa Stevenson; B.A.(N. Carolina, Chapel Hill), Ph.D.(Calif., Berk.)

Associate Member

Tobias Rees; M.A.(Eberhard Karls-Universitat Tubingen), Dip.Neuropharmacology(Inst. Pasteur, Paris), Ph.D.(Calif., Berk.)

12.11.1.5 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.

12.11.1.6 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.

12.11.1.7 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)

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 (12 credits)

3 credits 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

9 credits from:

ANTH 551	(3)	Advanced Topics: Archaeological Research
ANTH 555	(3)	Advanced Topics in Ethnology
ANTH 602	(3)	Theory 1
ANTH 603	(3)	Theory 2
ANTH 607D1	(3)	Proseminar in Archaeology
ANTH 607D2	(3)	Proseminar in Archaeology
ANTH 609D1	(3)	Proseminar in Anthropology
ANTH 609D2	(3)	Proseminar in Anthropology
ANTH 610	(3)	Social Organization
ANTH 611	(3)	Research Design
ANTH 614	(3)	Economic Anthropology 1
ANTH 615	(3)	Seminar in Medical Anthropology
ANTH 616	(3)	Political Anthropology 1
ANTH 631	(3)	Symbolic Anthropology 1

ANTH 634	(3)	Anthropology of Development 1
ANTH 635	(3)	Anthropology of Development 2
ANTH 640	(3)	Psychological Anthropology 1
ANTH 648	(3)	Structural Anthropology
ANTH 660	(3)	Research Methods
ANTH 670	(3)	Archaeological Theory 1
ANTH 671	(3)	Archaeological Theory 2
ANTH 673	(3)	Archaeological Field Methods
ANTH 680	(3)	Tutorial Reading 1
ANTH 681	(3)	Tutorial Reading 2
ANTH 682	(3)	Tutorial Reading 3
ANTH 684	(3)	Tutorial Reading 5
ANTH 702	(3)	Advanced Anthropological Theory
ANTH 760	(3)	Advanced Anthropological Methods
ANTH 770	(3)	Advanced Archaeological Theory
ANTH 780	(3)	Reading and Research 1
ANTH 781	(3)	Reading and Research 2

or another 500-, 600-, or 700-level course recommended by the Advisory Committee and approved by the Environment Option Committee.

12.11.1.8 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)

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)

WMST 601	(3)	Feminist Theories and Methods

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

12.11.1.9 Master of Arts (M.A.); Anthropology (Non-Thesis) (45 credits)

(Not offered in 2013-2014.)

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.

12.11.1.10 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)

ANTH 694	(6)	M.A. Thesis Tutorial 1
ANTH 695	(6)	M.A. Thesis Tutorial 2
ANTH 699	(24)	M.A. Thesis

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.

12.11.1.11 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.

12.11.1.12 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.

12.11.2 Art History

12.11.2.1 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*

12.11.2.2 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/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*.

Residency Requirements

For students entering the master's program in Art History, three semesters of full-time resident study at McGill University are required to complete the degree. "Residence" means that the student is enrolled on a full-time basis during this period (i.e., it does not refer to housing or accommodations). This residence period represents the minimum time required to obtain the degree; however, there is no guarantee that the required coursework can be completed within this time. Students may register for additional semesters to complete the program, and most students take four semesters (see *University Regulations and Resources* > *Graduate* > *Regulations* > *Registration* > *section 2.2.7: Time Limitation*, available at *www.mcgill.ca/study*). 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 his/her program. These are the courses that have been entered on the registration form. A few extra courses may be taken, but it is then the responsibility of the student to see that these courses are clearly marked "not required" on the registration form.

section 12.11.2.5: Master of Arts (M.A.); Art History (Thesis) (45 credits)

Please contact the Department for more information about this program.

section 12.11.2.6: Doctor of Philosophy (Ph.D.); Art History

Please contact the Department for more information about this program.

section 12.11.2.7: Doctor of Philosophy (Ph.D.); Art History — 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. The thesis must be on a topic centrally related to gender and/or women's studies.

12.11.2.3 Art History Admission Requirements and Application Procedures

12.11.2.3.1 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 12.11.2.3.2: 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.

12.11.2.3.2 Application Procedures

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

See *section 11.6.3: 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*).

12.11.2.3.2.1 Additional Requirements

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

- Writing Sample (in English or French)
- Research Proposal

Note: The section of the application marked "Statement of Purpose" is not strictly required unless the applicant has specific items to remark on his/her candidacy that are not addressed in the research proposal.

- Reference Letters – must be accompanied by the following "Recommendation Form" filled out by the letter writer: *Recommendation Form* [.pdf] or *Recommendation Form* [.doc].

12.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

12.11.2.4 Art History and Communication Studies Faculty

Chair

Angela Vanhaelen

Directors

Amelia Jones – *Director, Graduate Programs in Art History*

Darin Barney – *Director, Graduate Programs in Communication Studies*

Mary Hunter – *Director, Undergraduate Programs in Art History*

Directors

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.)

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.(Ill.-Chic.), 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

12.11.2.5 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).

For further details on thesis preparation and submission consult: http://www.mcgill.ca/gps/students/thesis/guidelines/.

Required Courses (27 credits)

ARTH 600	(3)	Advanced Professional Seminar
ARTH 698	(12)	Thesis Research 1
ARTH 699	(12)	Thesis Research 2

Complementary Courses (18 credits)

Chosen from the following:

ARTH 617	(3)	Modern Art

ARTH 618	(3)	Art History - 1400-1900 1
ARTH 630	(3)	Directed Reading 1
ARTH 645	(3)	Medieval Art and Archaeology
ARTH 646	(3)	Topics: Chinese Visual Culture
ARTH 647	(3)	Topics: Renaissance Art & Architecture 1
ARTH 648	(3)	Topics: Renaissance Art & Architecture 2
ARTH 653	(3)	Topics: Early Modern Visual Culture 1
ARTH 654	(3)	Topics: Early Modern Visual Culture 2
ARTH 660	(3)	Contemporary Art & Criticism 1
ARTH 661	(3)	Contemporary Art & Criticism 2
ARTH 673	(3)	Topics: 18th - Century Art & Architecture 1
ARTH 675	(3)	Topics: 19th - Century Art & Architecture 1
ARTH 678	(3)	Topics: 19th - Century Art & Architecture 2
ARTH 714	(3)	Directed Reading 2
ARTH 715	(3)	Research: Modern Architecture - 1750 to Present 1
ARTH 724	(3)	Art Criticism 2
ARTH 725	(3)	Methods in Art History 1
ARTH 730	(3)	Current Problems in Art History 1
ARTH 731	(3)	Current Problems in Art History 2

12.11.2.6 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)

ARTH 600	(3)	Advanced Professional Seminar
ARTH 701	(0)	Ph.D. Comprehensive Examination

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.

12.11.2.7 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.

12.11.3 Classics

See *section 12.11.10: History and Classical Studies*.

12.11.4 Communication Studies

12.11.4.1 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*

12.11.4.2 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), a thesis (equivalent to 24 credits), and the fulfilment of a French language requirement. 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. At the beginning of the third year of study, Ph.D. students are required to satisfy a French Language Requirement demonstrating French language ability in their area of research. 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.

section 12.11.4.5: 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 12.11.4.6: Master of Arts (M.A.); Communication Studies (Thesis) — Gender and Women's Studies (45 credits)

The graduate option in Gender and Women's Studies (GWS) provides graduate students obtaining degrees in a variety of participating departments and faculties with a cross-disciplinary specialization in feminist, women's, and gender studies. Students who pursue this option obtain a graduate degree in their own department as well as an "option/concentration" in GWS. Thus, the graduate option in GWS will appear on a student's transcript along with the M.A. The option was developed by the Women's Studies program in response to needs expressed by the Graduate Group for Feminist Scholarship (GGFS) and to the range of inquiries the Women's Studies program regularly receives from potential students interested in graduate-level work with a feminist focus at McGill University. There are no prerequisites to enter into the option. However, undergraduate or graduate courses in gender or women's studies provide an ideal foundation for more in-depth study of, and research in, feminist scholarship. The thesis must be on a topic centrally related to gender and/or women's studies.

section 12.11.4.7: Master of Arts (M.A.); Communication Studies (Non-Thesis) (45 credits)

Please contact the Department for more information about this non-thesis option.

section 12.11.4.8: 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 12.11.4.9: 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.

12.11.4.3 Communication Studies Admission Requirements and Application Procedures

12.11.4.3.1 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.

12.11.4.3.2 Application Procedures

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

See *section 11.6.3: 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.

12.11.4.3.2.1 Additional Requirements

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

- Research Proposal – at least 500 words
- Written Work – two examples

12.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

12.11.4.4 Communication Studies Faculty

See *section 12.11.2.4: Art History and Communication Studies Faculty*.

12.11.4.5 Master of Arts (M.A.); Communication Studies (Thesis) (45 credits)

The M.A. in Communication Studies offers advanced training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy. M.A. students pursue coursework and write an M.A. thesis that reflects sustained analysis of a topic in Communication Studies. The M.A. degree is academic in character, and does not include professional training in media production.

Thesis Courses (24 credits)

COMS 692	(6)	M.A. Thesis Preparation 1
COMS 693	(6)	M.A. Thesis Preparation 2
COMS 694	(6)	M.A. Thesis Preparation 3
COMS 695	(6)	M.A. Thesis Preparation 4

Required Course (3 credits)

COMS 616	(3)	Staff-Student Colloquium 1

Complementary Courses (18 credits)

18 credits of 500-level or higher COMS courses; two courses outside COMS require approval of the Graduate Program Director.

12.11.4.6 Master of Arts (M.A.); Communication Studies (Thesis) — Gender and Women's Studies (45 credits)

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

Thesis Courses (24 credits)

COMS 692	(6)	M.A. Thesis Preparation 1
COMS 693	(6)	M.A. Thesis Preparation 2
COMS 694	(6)	M.A. Thesis Preparation 3
COMS 695	(6)	M.A. Thesis Preparation 4

Required Courses (6 credits)

COMS 616	(3)	Staff-Student Colloquium 1
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

All complementary courses must be at the 500 level or higher in Communication Studies.

3 credits of complementary coursework must be in Gender and Women's Studies

WMST 602	(3)	Feminist Research Symposium

OR, one 3-credit course on gender/women's issues at the 500, 600, or 700 level (may be in the Department or outside).

12.11.4.7 Master of Arts (M.A.); Communication Studies (Non-Thesis) (45 credits)

Research Project (12 credits)

COMS 696	(6)	Research Project 1
COMS 697	(6)	Research Project 2

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.

12.11.4.8 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)

COMS 616	(3)	Staff-Student Colloquium 1
COMS 702	(0)	Comprehensive Examination
COMS 703	(0)	Dissertation Proposal

Complementary Courses (15 credits)

15 credits of 500-, 600-, or 700-level COMS courses; one course outside COMS requires approval of the Graduate Program Director.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

12.11.4.9 Doctor of Philosophy (Ph.D.); Communication Studies — Gender and Women's Studies

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

COMS 616	(3)	Staff-Student Colloquium 1
COMS 702	(0)	Comprehensive Examination
COMS 703	(0)	Dissertation Proposal
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

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.

12.11.5 East Asian Studies

12.11.5.1 Location

Department of East Asian Studies
688 Sherbrooke Street West, Room 425
Montreal, QC H3A 3R1
Canada

Telephone: 514-398-6742
Email: *asian.studies@mcgill.ca*
Website: *www.mcgill.ca/eas*

12.11.5.2 About East Asian Studies

The Department of East Asian Studies specializes in: modern and literary Chinese and Japanese; modern Korean; and in emerging fields of cultural analysis including cultural studies, women's literature, and the history of medicine, science, and technology. Research concentrations include East Asian literature, popular culture and religion, aesthetics, performance and politics, gender studies, film and media studies, early Chinese philosophy and newly excavated texts, and Chinese historical archaeology. The Department provides graduate training in the China and Japan fields at both the M.A. and Ph.D. levels. Candidates may study with Associate Members in other departments and faculties specializing in East Asia. Library holdings exceed 80,000 volumes and are being continually expanded. Candidates are expected to use primary and secondary sources in their theses and to spend time in Asia gathering data for their research topics. East Asian Studies provides excellent preparation for a future career in professions such as international business management, education, law, journalism, and communications, in addition to the necessary training for advanced study at the graduate level.

Members of the Department of East Asian Studies are recognized as being leading international experts in their chosen fields and disciplines, with numerous publications and honours to their credit.

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 12.11.5.5: 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 12.11.5.6: 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.

12.11.5.3 East Asian Studies Admission Requirements and Application Procedures

12.11.5.3.1 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; **photocopies are not accepted**. A minimum TOEFL score of 577 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 IELTS (International English Language Testing System) examination, for which the minimum score is an overall band average of 6.5.

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.

12.11.5.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

The application deadline for the September 2014 term is January 6, 2014.

12.11.5.3.2.1 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

12.11.5.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 6	Fall: Jan. 6	Fall: Jan. 6
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.5.4 East Asian Studies Faculty

Chair

Robin D.S. Yates

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)

Professors

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*)

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.(C'nell) (*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 Lu (*Political Science*)

Lorenz Lüthi (*History*)

Johanna Ransmeier (*History*)

Junko Shimoyama (*Linguistics*)

Sarah Turner (*Geography*)

Juan Wang (*Political Science*)

12.11.5.5 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.

12.11.5.6 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.

12.11.6 Economics

12.11.6.1 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*

12.11.6.2 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, two William Dawson Scholars, and an Officer of the Order of Canada (who is also a Bank of Canada Research Fellow), and two Fellows of the Royal Society of Canada.

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 12.11.6.5: 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 12.11.6.6: Master of Arts (M.A.); Economics (Non-Thesis) (45 credits)

The Master of Arts program in Economics (Non-Thesis) serves students seeking to solidify and deepen their understanding of economics prior to a career in government or the private non-academic sector, and those preparing for a Ph.D. in Economics. For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option.

section 12.11.6.7: 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. 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 12.11.6.8: 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 12.11.6.9: 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.

12.11.6.3 Economics Admission Requirements and Application Procedures

12.11.6.3.1 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 that 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 this *website*.

12.11.6.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

Information can be accessed on the Economics Department website at *www.mcgill.ca/economics*.

12.11.6.3.3 Additional Requirements

- GRE – mandatory if your education was interrupted or you do not have a degree in Economics from a Canadian university
- Personal Statement

12.11.6.3.4 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.6.4 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.)

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.)

Victoria Zinde-Walsh; M.A.(Wat.), M.Sc., Ph.D.(Moscow St.)

Associate Professors

Francisco Alvarez-Cuadrado; B.Sc.(U. Pontifica Comillas), M.A., Ph.D.(Wash.)

Hassan Benchekroun; 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)

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.)

C. John Kurien; B.A.(Kerala), M.A., Ph.D.(Vanderbilt)

Fabian Lange; B.Sc.(LSE), Ph.D.(Chic.)

Sonia Laszlo; B.A.(Ott.), M.A.(W. Ont.), Ph.D.(Tor.)

Markus Poschke; M.Sc.(Maastricht), M.A.(Institut d'Études Politiques, Paris), M.Res., Ph.D.(European University Institute, 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)

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.)

Faculty Lecturers

Paul Dickinson

Mayssun El-Attar Vilalta

Kenneth MacKenzie

Taweewan Sidthidet

12.11.6.5 Master of Arts (M.A.); Economics (Thesis) (48 credits)

Thesis Courses (30 credits)

ECON 650	(3)	Research 1
ECON 651	(3)	Research 2
ECON 652	(3)	Research 3
ECON 653	(3)	Research 4

ECON 670	(6)	Thesis 1
ECON 671	(6)	Thesis 2
ECON 672	(6)	Thesis 3

Required Courses (6 credits)

ECON 610	(3)	Microeconomic Theory 1
ECON 620	(3)	Macroeconomic Theory 1

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.

12.11.6.6 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.

12.11.6.7 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
INTD 657	(3)	Development Studies Seminar

Complementary Courses (12 credits)

3 or 6 credits from:

ECON 662D1	(3)	Econometrics
ECON 662D2	(3)	Econometrics
ECON 665	(3)	Quantitative Methods

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.

12.11.6.8 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)

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 (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.

12.11.6.9 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.

12.11.7 English

12.11.7.1 Location

Department of English
Arts Building
853 Sherbrooke Street West
Montreal, QC H3A 0G5
Canada

Telephone: 514-398-6564
Fax: 514-398-8146
Email: *gradstudies.englishlit@mcgill.ca*
Website: *www.mcgill.ca/english*

12.11.7.2 About English

The English Department has three broad areas of expertise: literature; drama and theatre; and cultural studies. The Department houses the Burney Centre, the Shakespeare Team, the Interacting with Print research group, McGill Medievalists, and members of the bilingual Novelists on the Novel research group. Research is conducted on all areas of English literature, including diverse national literatures and genres. Cultural studies involves cinema, visual culture, and aesthetics.

The English Department offers both M.A. and Ph.D. degrees.

The M.A. program admits 22–25 students each year from around the world. Unlike many other M.A. programs in English, the McGill M.A. requires a major piece of research, whether a thesis or a research paper, which is carried out under the supervision of a faculty member. Approximately half of McGill M.A. graduates go on to a Ph.D. program, 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. For their theses, doctoral students specialize in any area of English studies.

All students who apply will be considered for support, which normally takes the form of a Teaching or Research Assistantship.

Students with a B.A. in English, either Honours or major, can apply for the M.A. Typically, applicants will have solid coverage in all areas of English studies, whether in theatre, cultural studies, or literature. The Department offers two options toward the M.A. degree, one with a thesis and the other without 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.

section 12.11.7.5: Master of Arts (M.A.); English (Thesis) (48 credits)

In the thesis option, students must successfully take Bibliography (ENGL 694) and five seminars. They write a thesis of 80–100 pages that adheres to the guidelines spelled out 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 to work on the thesis.

section 12.11.7.6: Master of Arts (M.A.); English (Non-Thesis) (48 credits)

In the non-thesis option, students must successfully take Bibliography (ENGL 694) and seven seminars. They 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. The non-thesis M.A. is designed to be completed in two years, although it is very common for students to finish the program in one calendar year (Fall, Winter, Summer terms) or sixteen months (Fall, Winter, Summer, Fall terms).

section 12.11.7.7: 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. Doctoral students are expected to complete in their first year (Ph.D. 2) the two halves of the compulsory proseminar ENGL 787 (taken in the Fall term) and ENGL 788 (taken in the Winter term), along with four seminars. The proseminars expose students to current academic issues, theoretical propositions, and professional questions. Students may substitute for the two second-term courses 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 project, a unique feature of the McGill Ph.D., replaces comprehensive exams and allows students to work on a publishable piece of research. The language requirement must be fulfilled before the dissertation proposal is approved. The Department urges candidates to 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 or university.

12.11.7.3 English Admission Requirements and Application Procedures

12.11.7.3.1 Admission Requirements

M.A. Degree

Admission to the M.A. program requires an Honours degree in English or its equivalent. Outstanding applicants from related disciplines may be invited to take a Qualifying year.

Ph.D. Degree

Admission to the doctoral program is highly competitive. Outstanding students with the master's degree in hand are accepted into Ph.D. 2. In rare circumstances, outstanding graduates of B.A. programs will be considered for “fast-tracking” into the doctoral program, entering at Ph.D. 1. They follow the M.A. program (Thesis option) and, if their work is evaluated successfully at the end of the first year, they go on to complete the remaining requirements of the Ph.D. program.

12.11.7.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.7.3.2.1 Additional Requirements

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

- Writing Sample
- Personal Statement (750–800 words)

12.11.7.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.7.4 English Faculty

Chair

A. Hepburn

Emeritus Professors

M.D. Bristol; A.B.(Yale), Ph.D.(Princ.)

M. Puhvel; B.A., M.A.(McG.), Ph.D.(Harv.)

J. Ripley; B.A., M.A.(New Br.), Ph.D.(Birm.)

D. Suvin; B.A., M.Sc., Ph.D.(Zagreb), F.R.S.C.

W.C. Wees; B.A.(N'western), M.A.(Roch.), Ph.D.(N'western)

D. Williams; B.A.(Boston), M.A., Ph.D.(Tor.)

Professors

K. Borris; B.A.(Vic., BC), Ph.D.(Edin.)

M.N. Cooke; B.A.(Qu.), M.A.(C'nell), M.A., Ph.D.(Tor.)

A. Hepburn; B.A., M.A.(W. Ont.), Ph.D.(Princ.)

M.A. Kilgour; B.A.(Tor.), Ph.D.(Yale) (*Molson Professor of English*)

M. Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)

R. Lecker; B.A., M.A., Ph.D.(York) (*Greenshields Professor of English*)

P. Sabor; B.A.(Camb.), M.A.(Qu.), Ph.D.(Lond.) (*Canada Research Chair in 18th Century Studies*)

M. Stenbaek; B.A.(Copen.), M.A., Ph.D.(Montr.)

B. Trehearne; B.A., M.A., Ph.D.(McG.)

P. Yachnin; B.A.(McG.), M.Litt.(Edin.), Ph.D.(Tor.) (*Tomlinson Chair in Shakespeare Studies*)

Associate Professors

D.A. Bray; B.A.(McG.), Ph.D.(Edin.)

S. Carney; B.A.(Manit.) M.A.(Alta.), Ph.D.(York)

T,W. Folkerth; B.A.(CSU Chico), M.A., Ph.D.(McG.)

J. Fumo; 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.(Cant.), 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.)

T. Mole; B.A., M.A., Ph.D.(Bristol) (*William Dawson Scholar*)

M. Morgan; B.A.(Harv.), Ph.D.(Stan.)

Associate Professors

P. Neilson; B.A.(Bishop's), M.F.A.(Calg.)

D. Nystrom; B.A.(Wisc.), M.A., Ph.D.(Virg.)

T. Ponech; B.A.(McG.), Ph.D.(N'western)

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.)

Assistant Professors

T. Heise; B.A.(Flor. St.), M.A.(Calf., Davis), Ph.D.(NYU)

A. Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.)

M. Popescu; B.A., M.A.(Bucharest), M.A.(Windsor), Ph.D.(Penn.)

F. Ritchie; B.A., M.A.(Durh.), Ph.D.(Lond.)

A. Thain; B.A.(McG.), Ph.D.(Duke)

M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.)

12.11.7.5 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.

12.11.7.6 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.

12.11.7.7 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

two Departmental seminars and

ENGL 796	(6)	Research Project

12.11.8 French Language and Literature

12.11.8.1 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.littfran@mcgill.ca*
Site web : *http://litterature.mcgill.ca*

12.11.8.2 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.

M.A. avec mémoire et sans mémoire, et Ph. D.

Maîtrise

Le programme de maîtrise est à la fois un programme complet en soi et une première étape vers le Ph. D. Il vise deux buts également importants :

1. Permettre à l'étudiant de compléter et d'approfondir ses connaissances dans le domaine littéraire grâce à un programme d'enseignement portant sur les littératures française et québécoise de même que sur une variété de sujets connexes : théorie littéraire, histoire de la langue, histoire des idées, etc.
2. Favoriser l'apprentissage de la recherche et un début de spécialisation de la part de l'étudiant qui suit des séminaires d'initiation à la recherche littéraire et, soit rédige un mémoire, soit exécute d'autres travaux de recherche sous la direction des professeurs du Département.

La durée des études de maîtrise est normalement de deux ans. Dans le cas de la maîtrise avec mémoire, elle comprend deux trimestres pour la scolarité (M.A. I), 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.

Le choix des séminaires que fait l'étudiant doit être approuvé par le Directeur des études au moment de l'inscription. 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'annuaire des Études supérieures et postdoctorales, ou dans une autre université, pourvu que les cours et séminaires y soient de même niveau que les cours 600 ou 700 offerts par le Département. Dans tous les cas, l'étudiant doit obtenir l'autorisation du Directeur des études de 2e et 3e cycles et de la recherche, qui ne sera accordée que si les cours en question cadrent avec le programme d'études du candidat.

La note de passage est B- (65 %).

Ph. D.

Épreuve d'anglais

Tous les étudiants de Ph. D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790).

Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas.

Aucune dispense n'est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Programme

Le programme de Ph. D. comporte trois parties :

- 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'aussi près que possible le travail du candidat et de discuter avec lui de l'orientation de ses recherches.

La soutenance de la thèse a lieu devant un jury d'au moins six personnes, présidé par un représentant du Doyen ; font partie du jury : le directeur de thèse, un des deux membres du comité-conseil, un autre professeur du Département, l'évaluateur externe (extérieur à McGill) et le directeur du Département.

section 12.11.8.5: 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.

section 12.11.8.6: Maîtrise ès arts (M.A.) ; Langue et littérature françaises (avec mémoire) — études sur les femmes et le genre (48 crédits)

L'option en études sur les femmes et le genre (« Graduate Option in Gender and Women's Studies ») est un programme pluridisciplinaire offert aux étudiants qui remplissent en même temps toutes les exigences du programme de maîtrise avec mémoire du Département de langue et littérature françaises. En plus des deux cours obligatoires suivis au Département, les étudiants doivent suivre un cours de 3 crédits réservé aux étudiants de cette option. Parmi les cours au choix, les étudiants doivent suivre deux cours de 3 crédits chacun qui ont été approuvés par l'option et qui portent sur des questions reliées au genre et aux recherches et méthodologies féministes. Leur mémoire doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes.

Les deux premières sessions du programme de maîtrise sont consacrées à la scolarité, pour les étudiants inscrits à temps complet ; ils doivent alors suivre 6 séminaires de 3 crédits (dont le FREN 697) et préparer leur sujet de mémoire (FREN 696 : 6 crédits). Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

L'étudiant peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire.

section 12.11.8.7: Maîtrise ès arts (M.A.) ; Langue et littérature françaises (sans mémoire) (48 crédits)

La maîtrise sans mémoire comprend trois trimestres de séminaires après quoi les étudiants préparent trois travaux de recherche (30 pages chacun) sous la direction de trois professeurs. Parmi les débouchés qui s'offrent aux diplômés, on compte l'enseignement (au niveau collégial) de même que divers métiers liés à la littérature et à la communication écrite (notamment dans le milieu éditorial).

Les trois premières sessions du programme sont consacrées à la scolarité, pour les étudiants inscrits à temps complet ; ils doivent suivre 8 séminaires de trois crédits, soit 4 par session. Les cours FREN 697 et FREN 600 sont obligatoires. Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

section 12.11.8.8: Doctorat (Ph. D) ; Langue et littérature françaises

Les étudiants inscrits dans notre programme de doctorat sont titulaires d'une maîtrise dans la discipline (ou l'équivalent). Après une scolarité de deux trimestres, ils déposent au cours de la deuxième année leur projet de thèse et disposent d'un an pour préparer un examen préliminaire à la rédaction de leur thèse. L'ensemble du processus prend normalement entre quatre et cinq ans. Un grand nombre de nos diplômés se destinent à une carrière universitaire.

section 12.11.8.9: 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.

12.11.8.3 French Language and Literature Admission Requirements and Application Procedures

12.11.8.3.1 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 maîtrise 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.

12.11.8.3.2 Demande d'admission

Le formulaire de demande d'admission par le web est disponible pour tous les candidats aux études supérieures à l'adresse suivante : *www.mcgill.ca/gradapplicants/apply*.

Pour connaître les procédures détaillées relatives à l'ensemble des demandes d'admission à compter de l'été 2013, consultez *section 11.6.3: Application Procedures*.

12.11.8.3.2.1 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.)

12.11.8.3.3 Date limite de dépôt des demandes d'admission

Étudiants canadiens	Étudiants étrangers	Échange/visiteur ou statut particulier
Automne : Le 1er juin	Automne : Le 15 mars	Automne : Mêmes dates que celles pour les étudiants canadiens et étrangers
Hiver : Le 15 octobre	Hiver : Le 15 septembre	Hiver : Mêmes dates que celles pour les étudiants canadiens et étrangers
Été : S.O.	Été : S.O.	Été : S.O.

Nota : Nous n'examinerons aucune demande d'admission visant le trimestre d'été.

12.11.8.4 French Language and Literature Faculty

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)

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.) (*Chaire de recherche du Canada*)

D. Desrosiers; M.A., Ph.D.(Montr.) M.S.R.C. (*James McGill Professor*)

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)

12.11.8.5 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

12.11.8.6 Maîtrise ès arts (M.A.) ; Langue et littérature françaises (avec mémoire) — études sur les femmes et le genre (48 crédits)

Mémoire (24 crédits)

FREN 699	(24)	M.A. Thesis

Cours obligatoires (12 crédits)

FREN 696	(6)	Élaboration projet de mémoire
FREN 697	(3)	Méthodologie et théorie littéraires
WMST 601	(3)	Feminist Theories and Methods

Cours complémentaires

12 crédits au 500 niveau ou plus.

Six crédits de séminaires au choix parmi les séminaires du Département ou à l'extérieur du Département qui ont été approuvés par l'option.

Six crédits de séminaires au choix, dont un peut être suivi à l'extérieur du Département.

12.11.8.7 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'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

12.11.8.8 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 credits)

Trois séminaires au choix, ainsi que les Séminaires de doctorat suivants qui sont obligatoires:

FREN 710	(1.5)	Séminaire de doctorat 1
FREN 711	(1.5)	Séminaire de doctorat 2
FREN 790	(0)	Language Requirement

Ph.D. III

Cours obligatoires

FREN 706	(0)	Élaboration du sujet de thèse
FREN 707	(0)	Examen préliminaire

Les étudiants de doctorat peuvent obtenir un maximum de 3 crédits en suivant des cours hors du Département, que ce soit à McGill (cours décrits dans l'annuaire des Études supérieures et postdoctorales ('University Calendar of Graduate and Postgraduate Studies') ou dans une autre université. L'étudiant qui choisit cette option doit obtenir l'autorisation du Directeur des études de 2e et 3e cycles et de la recherche, autorisation qui ne sera accordée que si les cours en question cadrent avec son programme d'études et sont du niveau approprié.

12.11.8.9 Doctorat (Ph. D) ; Langue et littérature françaises — études sur les femmes et le genre

L'Option en études sur les femmes et le genre (« Graduate Option in Gender and Women's Studies ») est un programme pluridisciplinaire offert aux étudiants qui remplissent en même temps toutes les exigences du programme de doctorat du Département de langue et littérature françaises. En plus les cours obligatoires suivis au Département, les étudiants doivent suivre trois cours de 3 crédits chacun qui ont été approuvés par l'Option et qui portent sur des questions reliées au genre et aux recherches et méthodologies féministes. Leur thèse doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes.

Thèse

Une thèse de doctorat doit constituer une recherche inédite et représenter un apport distinct au savoir. Elle doit témoigner de la connaissance des travaux antérieurs réalisés dans le domaine et montrer la capacité de planifier et d'accomplir la recherche, d'organiser les résultats et de défendre la démarche et les conclusions de manière savante. Le travail de recherche présenté doit correspondre aux normes actuelles de la discipline; la thèse doit en outre clairement montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Épreuve d'anglais

Tous les étudiants de Ph.D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790). Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas. Aucune dispense n'est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Cours obligatoires (9 crédits)

FREN 710	(1.5)	Séminaire de doctorat 1
FREN 711	(1.5)	Séminaire de doctorat 2
FREN 790	(0)	Language Requirement
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Cours complémentaires (3 crédits)

Un séminaire (3 crédits) au choix de niveau 500 ou plus parmi les séminaires du Département qui ont été approuvés par l'option et qui portent sur les femmes et le genre. Ce cours ne peut pas être suivi à l'extérieur du Département.

12.11.9 Geography

12.11.9.1 Location

Department of Geography
Burnside Hall
805 Sherbrooke Street West, Room 705
Montreal, QC H3A 0B9
Canada

Telephone: 514-398-4111
Fax: 514-398-7437
Email: *grad.geog@mcgill.ca*
Website: *www.geog.mcgill.ca*

12.11.9.2 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 Systems Science; and Environmental Management. Geography houses the Hitschfield 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 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 12.11.9.5: 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 12.11.9.6: 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 12.11.9.7: 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 12.11.9.8: 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 12.11.9.9: 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 12.11.9.10: 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 24.11.6.5: 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 24.11.6.6: 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 24.11.6.7: 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,

section 24.11.6.7: 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 12.11.9.11: 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 12.11.9.12: 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 12.11.9.13: 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 12.11.9.14: 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.

12.11.9.3 Geography Admission Requirements and Application Procedures

12.11.9.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in *section 11.6: 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.

12.11.9.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.9.3.2.1 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
- *Department application form*

12.11.9.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 31	Fall: Jan. 31	Fall: Jan. 31
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.9.4 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.) (*joint 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

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

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.)

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

L. Berrang Ford; M.A.(Oxf.), Ph.D.(Guelph)

J. Ford; Ph.D.(Guelph)

M. Kalacska; Ph.D.(Alta.)

B. Lehner; Ph.D.(Frankfurt)

Assistant Professors

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

Adjunct Professors

R. Cooke, E. Levac, G. Peterson

Course Lecturer

G. Akman

12.11.9.5 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.

12.11.9.6 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.

12.11.9.7 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.

12.11.9.8 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.

12.11.9.9 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)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
GEOG 631	(3)	Methods of Geographical Research

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective 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.

12.11.9.10 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.

12.11.9.11 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
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

12.11.9.12 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

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

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Comprehensives

GEOG 700	(0)	Comprehensive Examination 1

GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

12.11.9.13 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

GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

12.11.9.14 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

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.

12.11.10 History and Classical Studies

12.11.10.1 Location

Department of History and Classical Studies
Stephen Leacock Building, Room 608
855 Sherbrooke Street West
Montreal, QC H3A 2T7
Canada

Telephone: 514-398-2844
Fax: 514-398-8365
Email: *graduate.history@mcgill.ca*
Website: *www.mcgill.ca/history/graduate*
Website: *www.mcgill.ca/classics/graduate-studies*

12.11.10.2 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 12.11.10.5: 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 12.11.10.6: 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 12.11.10.7: 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 12.11.10.8: 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 12.11.10.9: 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 12.11.10.10: 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 12.11.10.11: 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 12.11.10.12: 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 12.11.10.13: 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 12.11.10.14: 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 12.11.10.15: 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 12.11.10.16: Master of Arts (M.A.); Classics (Non-Thesis) (48 credits)

(*Not offered in 2013–2014.*)

section 12.11.10.17: Doctor of Philosophy (Ph.D.); Classics

(*Not offered in 2013–2014.*)

12.11.10.3 History and Classical Studies Admission Requirements and Application Procedures

12.11.10.3.1 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.

12.11.10.3.2 Application Procedures

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

See for detailed application procedures.

Refer to the Department of History and Classical Studies website for detailed information (*www.mcgill.ca/history/graduate*).

12.11.10.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Winter or Summer term admission will not be considered.

12.11.10.4 History and Classical Studies Faculty

Chair

Elizabeth Elbourne

Director of Classical Studies

Hans Beck

Graduate Program Director

Brian Lewis

Coordinator of Graduate Funding

TBA

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)

Michael P. Maxwell; B.A.(Sir G. Wms.), M.A., Ph.D.(McG.)

Carman I. Miller; B.A., B.Ed.(Acad.), M.A.(Dal.), Ph.D.(Lond.)

Desmond Morton; B.A.(R.M.C.), B.A., M.A.(Oxf.), Ph.D.(Lond.) (*Hiram Mills Emeritus Professor of History*)

Yuzo Ota; B.A., M.A., Ph.D.(Tokyo)

Albert Schachter; B.A.(McG.), D.Phil.(Oxf.) (*Hiram Mills Emeritus Professor of Classics*)

George Michael Woloch; B.A.(Yale), B.A., M.A.(Oxf.), Ph.D.(Johns Hop.) (*John McNaughton Emeritus Professor of Classics*)

Brian J. Young; B.A.(Tor.), M.A., Ph.D.(Qu.) (*James McGill Emeritus Professor of History*)

Professors

Hans Beck; Ph.D.(Erlangen) (*John MacNaughton Professor of Classics*)

Gwyn Campbell; B.Soc.Sc., M.Soc.Sc.(Birm.), Ph.D.(Wales) (*Canada Research Chair*)

Allan Greer; B.A.(Br. Col.), M.A.(Car.), Ph.D.(York) (*Canada Research Chair*)

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*)

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.(C'nell), M.A., Ph.D.(Ohio St.)

Elsbeth Heaman; B.A., M.A.(McG.), Ph.D.(Tor.) (*Canada Research Chair*)

Catherine LeGrand; B.A.(Reed), M.A., Ph.D.(Stan.)

Brian Lewis; B.A., M.A.(Oxf.), A.M., Ph.D.(Harv.)

Lorenz Lüthi; Lic.Phil.I(Zürich), M.A., M.Phil., Ph.D.(Yale)

Leonard Moore; A.B., M.A., Ph.D.(Calif.)

Jason Opal; B.A.(C'nell), M.A., Ph.D.(Brandeis)

Laila Parsons; B.A.(Exe.), D.Phil.(Oxf.) (*joint appt. with Institute of Islamic Studies*)

R. Jarrett Rudy; B.A., M.A.(Ott.), Ph.D.(McG.)

Associate Professors

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.)

Johanna Ransmeier; B.A.(Amh.), M.A., Ph.D.(Yale)

Jon Dylan Soske; B.A.(USC), M.A.(Calif., Berk.), Ph.D.(Tor.)

Judith Szapor; B.A., M.A., Ph.D.(York)

Gavin Walker; B.A., M.A.(Penn.), Ph.D.(C'nell) (*joint appt. with East Asian Studies*)

Part-Time Assistant Professor

Jason Szabo; M.D.(Alta.), M.A., Ph.D.(McG.)

Faculty Lecturers

Margaret Palczynski; B.Sc.(McG.), M.A.(C'dia)

Martin Sirois; B.A., M.A.(Montr.), M.A.(Princ.)

12.11.10.5 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.

12.11.10.6 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.

12.11.10.7 Master of Arts (M.A.); History (Thesis) — European Studies (45 credits)

Thesis Courses (33 credits)

HIST 696	(9)	Thesis Research 1
HIST 697	(12)	Thesis Research 2
HIST 698	(12)	Thesis Research 3

Required Courses (3 credits)

HIST 659	(3)	Interdisciplinary Seminar in European Studies

Complementary Courses (9 credits)

9 credits at the 500 level or higher, selected as follows:

6 credits on European themes and issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.8 Master of Arts (M.A.); History (Thesis) — Gender and Women's Studies (45 credits)

Thesis Courses (33 credits)

HIST 696	(9)	Thesis Research 1
HIST 697	(12)	Thesis Research 2
HIST 698	(12)	Thesis Research 3

Required Courses (3 credits)

WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (9 credits)

9 credits at the 500 level or higher, selected as follows:

3 credits on gender-related issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.9 Master of Arts (M.A.); History (Non-Thesis) (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (12 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial

Complementary Courses (18 credits)

18 credits at the 500, 600, or 700 level.

No more than 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.10 Master of Arts (M.A.); History (Non-Thesis) — Development Studies (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (15 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial
INTD 657	(3)	Development Studies Seminar

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

6 credits relating to development studies;

9 credits relating to the student's program of study.

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.11 Master of Arts (M.A.); History (Non-Thesis) — European Studies (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (15 credits)

HIST 659	(3)	Interdisciplinary Seminar in European Studies
HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

6 credits on European themes and issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.12 Master of Arts (M.A.); History (Non-Thesis) — Gender and Women Studies (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (15 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

3 credits on gender-related issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.13 Master of Arts (M.A.); History of Medicine (Non-Thesis) (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (12 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial

Complementary Courses (18 credits)

18 credits at the 500, 600, or 700 level

6-12 credits in History of Medicine courses chosen from the following:

HIST 636	(3)	Medieval Medicine Seminar 1
HIST 637	(3)	Medieval Medicine Seminar 2
HIST 640	(3)	Modern Medicine Seminar 1
HIST 641	(3)	Modern Medicine Seminar 2
HSSM 604	(3)	History of Medicine

6-12 credits in History (non-Medicine) courses.

Up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.10.14 Doctor of Philosophy (Ph.D.); History

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

HIST 701	(3)	Doctoral Seminar
HIST 702	(0)	Comprehensive Examination - Major Field
HIST 703	(0)	Comprehensive Examination - First Minor Field
HIST 704	(0)	Comprehensive Examination - Second Minor Field

Complementary Courses

A maximum of 9 credits previously completed at the graduate level, whether at McGill or elsewhere. Courses must be at the 500, 600, or 700 level. Up to 6 credits may be taken in another department.

Language Requirement

Ph.D. candidates must offer one foreign language for examination purposes. Candidates may need a reading knowledge of such other languages as are required for research purposes in their major field.The Department expects that candidates will have successfully demonstrated competence in the one required language by the end of their Ph.D. 3 year.

12.11.10.15 Master of Arts (M.A.); Classics (Thesis) (45 credits)

Thesis Courses (27 credits)

CLAS 696	(6)	M.A. Thesis Research 1
CLAS 697	(6)	M.A. Thesis Research 2
CLAS 698	(15)	M.A. Thesis Research 3

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.

12.11.10.16 Master of Arts (M.A.); Classics (Non-Thesis) (48 credits)

Not offered in 2013-2014.

Research Project (12 credits)

CLAS 681	(3)	M.A. Research Paper 1
CLAS 682	(3)	M.A. Research Paper 2
CLAS 683	(3)	M.A. Research Paper 3
CLAS 684	(3)	M.A. Research Paper 4

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)

CLAS 685D1	(3)	M.A. Special Subject 1
CLAS 685D2	(3)	M.A. Special Subject 1
CLAS 686D1	(3)	M.A. Special Subject 2
CLAS 686D2	(3)	M.A. Special Subject 2

12.11.10.17 Doctor of Philosophy (Ph.D.); Classics

Not offered in 2013-2014.

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.

12.11.11 Institute for the Study of International Development

12.11.11.1 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*

12.11.11.2 About the Institute for the Study of International Development

ISID is a 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/studies/option*.

12.11.11.3 Institute for the Study of International Development Admission Requirements and Application Procedures

12.11.11.3.1 Admission Requirements

Students will ONLY be considered for the Development Studies Option (DSO) once they have been accepted into a master's program in one of the six participating departments (Anthropology, Economics, Geography, History, Political Science, and Sociology) at McGill.

12.11.11.3.2 Application Procedures

Students applying through a participating department must indicate in their application that they want to be considered for the DSO. Final approval on admission to the DSO will be made once the files of successful departmental applicants have been received at ISID.

12.11.11.3.3 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).

12.11.12 Islamic Studies

12.11.12.1 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*

12.11.12.2 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; Islamic Theology; Islamic Philosophy; Science in Islamic Societies; Islamic History; Safavid History; History of the Modern Middle East; Anthropology and History of Modern Iran; Islam and Politics; Islam in Africa; Islamic Law; South Asian Literature; and Women and Gender Studies in Islam. 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 12.11.12.5: 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, and knowledge of Arabic at the introductory level. 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 12.11.12.6: 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, and knowledge of Arabic at the introductory level. 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 12.11.12.7: 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, and knowledge of Arabic at the lower intermediate level. 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 12.11.12.8: 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, and knowledge of Arabic at the lower intermediate level. 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.

12.11.12.3 Islamic Studies Admission Requirements and Application Procedures

12.11.12.3.1 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*).

12.11.12.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.12.3.2.1 Additional Requirements

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

- Reference Letters – three letters required for Ph.D. applicants
- *Institute of Islamic Studies Academic Information Background Form*
- 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 recommended or required, as follows: one year of language training for M.A. applicants is highly recommended; two years for Ph.D. applicants is required.

12.11.12.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.12.4 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*)

Emeritus and Retired Professors

Eric Ormsby; B.A.(Penn.), M.A.(Princ.), M.L.S.(Rutg.), Ph.D.(Princ.) (*retired*)

A. Üner Turgay; B.A.(Robert Coll., Istanbul), M.A., Ph.D.(Wisc.) (*retired*)

Professor

F. Jamil Ragep; B.A., M.A.(Mich.), Ph.D.(Harv.)

Associate Professors

Malek H. Abisaab; B.A.(Lebanese Univ.), M.A.(CUNY), Ph.D.(Binghamton)

Rula J. Abisaab; B.A.(Amer. Univ. Beirut), M.A.(Calif. St.), M.Phil., Ph.D.(Yale)

Michelle L. Hartman; B.A.(Col.), D.Phil.(Oxf.)

Setrag Manoukian; B.A.(Venice), M.A., Ph.D.(Mich.)

Khalid M. Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.)

Laila Parsons; B.A.(Exe.), D.Phil.(Oxf.)

Robert Wisnovsky; B.A.(Yale), M.A., Ph.D.(Princ.)

Assistant Professors

Ahmed Fekry Ibrahim; B.A.(al-Azhar), 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.)

Faculty Lecturers

Shokry Gohar; B.A.(Cairo)

David Nancekivell; B.A., M.A.(Laval)

Pouneh Shabani-Jadidi; B.A., M.S., Ph.D.(Azad), Ph.D.(Ott.)

12.11.12.5 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.

12.11.12.6 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.

12.11.12.7 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

ISLA 701	(0)	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.

12.11.12.8 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)

ISLA 701	(0)	Comprehensive Examination
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

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.

12.11.13 Jewish Studies

12.11.13.1 Location

Department of Jewish Studies
3438 McTavish Street, Room 202
Montreal, QC H3A 0E4

Canada

Telephone: 514-398-6543
Fax: 514-398-5158
Email: *graduate.jewishst@mcgill.ca*
Website: *www.mcgill.ca/jewishstudies*

12.11.13.2 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 12.11.13.5: 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 12.11.13.6: 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.

12.11.13.3 Jewish Studies Admission Requirements and Application Procedures

12111333.1 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.

12111333.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

121113321 Additional Requirements

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

- Research Proposal
- Curriculum Vitae
- Written Work

12.11.13.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Feb. 1	Fall: Feb. 1	Fall: Feb. 1
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

12.11.13.4 Jewish Studies Faculty

Chair and Graduate Program Director

Eric Caplan

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.)

12.11.13.5 Master of Arts (M.A.); Jewish Studies (Thesis) (45 credits)

An M.A. in Jewish Studies (thesis option) is offered in the following areas: History of the Jewish Interpretation of the Bible, Eastern European Jewish History, Jewish Thought, Hebrew Literature, and Modern Jewish Literatures. These areas of specialization are broadly construed to accommodate the range of research interests in the Department. The M.A. can be completed in one year, though most students spend two years in the program.

Note: Students can choose from either the Jewish Studies Stream or History of the Jewish Interpretation of the Bible Stream.

Jewish Studies Stream (45 credits)

Thesis Courses (30 credits)

JWST 695	(9)	M.A. Thesis 1
JWST 696	(9)	M.A. Thesis 2
JWST 697	(12)	M.A. Thesis 3

Required Course (3 credits)

JWST 699	(3)	Research in Jewish Studies

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)

JWST 690	(3)	M.A. Thesis 1
JWST 691	(6)	M.A. Thesis 2
JWST 692	(12)	M.A. Thesis 3
JWST 694	(3)	M.A. Thesis 4

Required Courses (6 credits)

JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 699	(3)	Research in Jewish Studies

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.

12.11.13.6 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)

JWST 699	(3)	Research in Jewish Studies

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)

JWST 504	(3)	Seminar in Jewish Thought
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 604	(3)	Topics: In Jewish Thought

Jewish History (12-15 credits)

HIST 655	(6)	Tutorial

HIST 677D1	(3)	Seminar: European Jewish History
HIST 677D2	(3)	Seminar: European Jewish History
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
JWST 602	(3)	East European Jewish History 1

Jewish Literature (12-15 credits)

JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 530	(3)	Topics in Yiddish Literature
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature
JWST 615	(3)	Literary Analysis of Hebrew Fiction

12.11.14 Languages, Literatures, and Cultures

12.11.14.1 Location

Department of Languages, Literatures, and Cultures
688 Sherbrooke Street West, Suite 425
Montreal, Quebec H3A 3R1
Canada

Telephone: 514-398-3650
Fax: 514-398-1748
Email: *info.llcu@mcgill.ca*
Website: *www.mcgill.ca/langlitcultures*

12.11.14.2 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, GERM 202, or GERM 203D1/GERM 203D2.

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. The Department offers unique opportunities for graduate students through its involvement in The Hispanic Baroque Project, a SSHRC-MCRI funded research project. The Project membership includes an international team of more than 30 scholars from all over the world.

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, as stated in the Graduate and Postdoctoral Studies *University Regulations and Resources* publication apply.

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, Chekhov, Russian Modernism, Russian Romanticism, High Stalinist Culture, Post-Soviet culture, cultural mythology, intertextuality, and women's studies. The list of current graduate courses attests to the range and diversity of approaches in the Department. We offer a broad and flexible range of graduate seminars. Current graduate students collaborate with the Department of Art History and Communication Studies and with 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 12.11.14.5: 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 12.11.14.6: 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 12.11.14.7: 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 12.11.14.8: 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 12.11.14.9: 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 12.11.14.10: 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 12.11.14.11: 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 12.11.14.12: 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 12.11.14.13: 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 12.11.14.14: 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.

12.11.14.3 Languages, Literatures, and Cultures Admission Requirements and Application Procedures

12.11.14.3.1 Admission Requirements

TOEFL is required of all 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 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.

GERMAN STUDIES

Master's

In order to be admitted to the M.A. program in German Studies, candidates must have at least a B.A. degree in German from McGill University or an equivalent degree from another college or university of recognized standing.

Applicants with joint degrees or majors degrees may be admitted on individual merit but they may be required to take additional courses. They may also be able to enter the program as Qualifying students for the purpose of completing these preliminary studies.

In order to pursue graduate studies in German, all candidates must have considerable fluency in German, as all courses are given in German.

Graduate students holding a Language Instructorship or who are otherwise employed will normally not be allowed to take more than four courses a year. Students may be required to attend an approved course in English if their knowledge of that language is judged inadequate. All graduate students are expected to attend the staff-student colloquium.

Ph.D.

M.A. or equivalent.

HISPANIC STUDIES

M.A. Degree (Non-Thesis or Thesis)

(Currently, students are only admitted to the thesis option in exceptional circumstances.)

In order to be admitted to graduate work in Hispanic Studies, candidates must fulfil the following prerequisites:

1. Candidates must possess a B.A. degree with Honours or, in certain cases, Joint Honours in Hispanic Studies from McGill University, or an equivalent degree from another college or university of recognized standing.
2. Candidates who do not possess the above prerequisites may, with special permission, enter the Department as Qualifying students for the purpose of completing these preliminary studies. They may have to take, among other courses, HISP 550, Comprehensive Examination.

Students may be required to attend an approved course in English or French if their knowledge of either language is deemed inadequate.

Prospective candidates may certainly express their preference, but should note that the 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 fulfil these requirements will be offered within the Department or elsewhere at McGill. Certain graduate courses may be taken by arrangement at approved universities.

12.11.14.3.2 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 11.6.3: Application Procedures* for detailed application procedures.

12.11.14.3.2.1 Additional Requirements

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

- Written Work
- Personal Statement – including a description of academic intent
- Writing Sample – for Italian Studies only: a sample critical essay, written in Italian
- Interview – for Russian and Slavic Studies only; where appropriate, if necessary by telephone, with members of the Department Graduate Committee

12.11.14.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 30	Fall: Jan. 30	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

12.11.14.4 Languages, Literatures, and Cultures Faculty

Chair

K. Bauer

Directors of Graduate Studies

K. Bauer (*German Studies*)

J. Pérez-Magallón (*Hispanic Studies*)

L. Kroha (*Italian Studies*)

L. Parts (*Russian and Slavic Studies*)

Emeritus Professors

P.M. Daly; B.A.(Brist.), Ph.D.(Zür.)

P.D. Stewart; B.A.(Montr.), M.A.(McG.), F.R.S.C.

Professors

J. Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)

P. Peters; Ph.D.(Free Univ., Berlin)

K. Sibbald; M.A.(Cant.), M.A.(Liv.), Ph.D.(McG.)

Associate Professors

K. Bauer; M.A., Ph.D.(Wash.)

L. Beraha; B.A., M.A., Ph.D.(McG.)

E. Bolongaro; B.A., LL.B.(Br. Col.), M.A., Ph.D.(McG.)

D.A. Boruchoff; A.B., A.M., Ph.D.(Harv.)

M. Cowan; B.A., Ph.D.(Calif., Berk.)

A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)

J.R. Jouvé-Martin; Lic.Fil.(Madrid), Ph.D.(G'town)

L. Kroha; B.A., M.A.(McG.), Ph.D.(Harv.)

F. Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)

L. Parts; M.A., Ph.D.(Col.)

A. Piper; B.A.(Princ.), Ph.D.(Col.)

S. Sinclair; Ph.D.(Qu.), M.A.(Vic., BC), B.A.(Br. Col.)

Assistant Professors

L. Alonso-Ovalle; Lic.(Oviedo), M.A., Ph.D.(Mass.) (*joint appt. with Linguistics*)

A. Berman; B.A.(Brown), M.A., Ph.D.(Princ.), M.Phil.(Camb.)

S. Posthumus; Ph.D.(W. Ont.), M.A.(Qu.), B.A.(Calvin)

M. Soranzo; Dott.Lett.(Padua), Ph.D.(Wisc.)

12.11.14.5 Master of Arts (M.A.); German (Thesis) (48 credits)

Thesis Courses (30 credits)

GERM 690	(9)	Thesis Research 1
GERM 691	(9)	Thesis Research 2
GERM 692	(12)	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.

12.11.14.6 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.

12.11.14.7 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.

12.11.14.8 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.

12.11.14.9 Master of Arts (M.A.); Hispanic Studies (Non-Thesis) (48 credits)

All candidates pursuing the M.A. without thesis must complete HISP 615. Candidates choosing to focus their research on the literature of Spain will take HISP 616. Those wishing to specialize in the literature of Spanish America will take HISP 617.

At the conclusion of each Research Project, students will be required to produce an extended essay, or series of essays, during a 48-hour period with full access to critical material. Each of these essays will focus upon themes and issues central to the particular field of research and will be examined by at least two faculty members. Normally, the examinations for each of these projects will be offered only once during the academic year and always in the same rotation: HISP 615 in December, and both HISP 616 and HISP 617 in April.

Research Project (18 credits)

Note: Students may take either HISP 616 OR HISP 617.

HISP 615	(9)	Medieval and Golden Age Literature: Grp
HISP 616	(9)	Modern and Contemporary Spanish Literature: Grp
HISP 617	(9)	Modern and Contemporary Spanish-American Literature: Grp

Required Courses (6 credits)

HISP 603	(3)	Hispanic Bibliography 1
HISP 604	(3)	Hispanic Bibliography 2

Complementary Courses (24 credits)

Eight 3-credit graduate-level HISP courses.

12.11.14.10 Doctor of Philosophy (Ph.D.); Hispanic Studies

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

HISP 701	(0)	Ph.D. Comprehensive Examination
HISP 713	(3)	Research Seminar

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.

12.11.14.11 Master of Arts (M.A.); Italian (Thesis) (45 credits)

Thesis Courses (24 credits)

ITAL 698	(6)	Thesis Proposal
ITAL 699	(18)	Thesis

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 (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.

12.11.14.12 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.

12.11.14.13 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.

12.11.14.14 Doctor of Philosophy (Ph.D.); Russian

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

RUSS 700	(0)	Ph.D. Tutorial
RUSS 701	(0)	Ph.D. Comprehensive Examination
RUSS 702	(0)	Ph.D. Thesis Proposal

Depending on their individual background, students may be asked to take additional coursework as approved by the Department Graduate Committee.

Students must complete two of the following:

RUSS 750	(0)	History of Russian Language
RUSS 760	(0)	Pre-Petrine Foundation
RUSS 770	(0)	18th Century Foundation

Language Requirement

Proficiency in Russian, functional ability in English and in French, and proficiency in a second Slavic language, if relevant to the research topic and where deemed appropriate by the Department Graduate Committee.

12.11.15 Linguistics

12.11.15.1 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*

12.11.15.2 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 12.11.15.5: 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 12.11.15.6: 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 12.11.15.7: 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*.

12.11.15.3 Linguistics Admission Requirements and Application Procedures

12.11.15.3.1 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.

12.11.15.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.15.3.2.1 Additional Requirements

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

- Research Proposal
- Writing Sample

12.11.15.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 15	Fall: Dec. 15	Fall: Dec. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.15.4 Linguistics Faculty

Chair

B. Schwarz

Emeritus Professors

C.D. Ellis; B.A.(Camb. & McG.), M.A.(Tor. & Yale), Ph.D.(McG.)

Emeritus Professors

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

B. Gillon; B.A., M.A.(Mich.), M.A.(Tor.), Ph.D.(MIT)

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.)

12.11.15.5 Master of Arts (M.A.); Linguistics (Non-Thesis) (45 credits)

Research Project (15 credits)

LING 607	(15)	M.A. Research Paper

Required Courses (15 credits)

LING 601	(3)	Graduate Research Seminar 1
LING 602	(3)	Graduate Research Seminar 2
LING 631	(3)	Phonology 3
LING 660	(3)	Semantics 3
LING 671	(3)	Syntax 3

Complementary Courses (15 credits)

3 credits from:

LING 530	(3)	Acoustic Phonetics
LING 619	(3)	Experimental Foundations
LING 635	(3)	Phonology 4
LING 665	(3)	Semantics 4
LING 675	(3)	Syntax 4

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.

12.11.15.6 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 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 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:

LING 530	(3)	Acoustic Phonetics
LING 635	(3)	Phonology 4
LING 665	(3)	Semantics 4
LING 675	(3)	Syntax 4

3 credits:

LING 620	(3)	Experimental Linguistics: Methods

12.11.15.7 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)

EDSL 711	(2)	Language Acquisition Issues 3
LING 601	(3)	Graduate Research Seminar 1
LING 602	(3)	Graduate Research Seminar 2
LING 619	(3)	Experimental 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
LING 710	(2)	Language Acquisition Issues 2
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

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:

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
EDSL 664	(3)	Second Language Research Methods
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown
LING 620	(3)	Experimental Linguistics: Methods
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
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

12.11.16 Mathematics and Statistics

12.11.16.1 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*

12.11.16.2 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 12.11.16.5: 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 12.11.16.6: 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 24.11.7.5: 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 24.11.7.6: 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 24.11.7.7: 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 24.11.7.8: 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 12.11.16.7: 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 12.11.16.8: 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.

12.11.16.3 Mathematics and Statistics Admission Requirements and Application Procedures

12.11.16.3.1 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.

12.11.16.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.16.3.2.1 Additional Requirements

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

- Research Proposal – in the proposal, applicants should clearly explain their choice of preferred research group(s) and specific research topics of particular interest (if any)
- 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*.

12.11.16.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Same as Canadian/International
Winter: Sept. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

12.11.16.4 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.)

Emeritus Professors

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; 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*)

Olga Kharlampovich; M.A.(Ural St.), Ph.D.(Lenin.), Dr. of Sc.(Steklov Inst.)

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

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)

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

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)

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.)

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.)

12.11.16.5 Master of Arts (M.A.); Mathematics and Statistics (Thesis) (45 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Complementary Courses (21 credits)

At least 6 approved graduate courses, at the 500, 600 or 700 level, of 3 credits or more each.

12.11.16.6 Master of Arts (M.A.); Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)

MATH 640	(8)	Project 1
MATH 641	(8)	Project 2

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

12.11.16.7 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

MATH 700	(0)	Ph.D. Preliminary Examination Part A
MATH 701	(0)	Ph.D. Preliminary Examination Part B

Complementary Courses

Twelve approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

12.11.16.8 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)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
MATH 700	(0)	Ph.D. Preliminary Examination Part A
MATH 701	(0)	Ph.D. Preliminary Examination Part B

Complementary Courses (6 credits)

(3-6 credits)

The twelve one-semester complementary courses for the Ph.D. degree must include at least two from the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the list below must be chosen:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

12.11.17 Philosophy

12.11.17.1 Location

Department of Philosophy
Leacock Building, Room 908
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*

12.11.17.2 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 fulfil the requirements of a graduate course, to a Thesis Advancement Committee consisting of a 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 12.11.17.5: 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 12.11.17.6: 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 12.11.17.7: 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 12.11.17.8: 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.

12.11.17.3 Philosophy Admission Requirements and Application Procedures

12.11.17.3.1 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, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English (TOEFL score).

Students who hold an M.A. degree from another institution should apply for admission to the Ph.D. 2 level.

M.A. (Bioethics)

Students applying to the Bioethics Specialty program must write an M.A. thesis proposal. All applications to this program must also receive the approval of the Director of the Specialty program. Students who apply for this program should note that they must participate in a practicum, which continues beyond the end of their second term of classes.

12.11.17.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.17.3.2.1 Additional Requirements

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

- Letters of Reference – three (3) original letters of reference
- Writing Sample (15–20 pages)
- Personal Statement (2–3 pages)

12.11.17.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Contact the Department
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: The Department considers admissions for the Fall term only. Applications for Winter or Summer term admission will not be considered.

12.11.17.4 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. McGilvray; B.A.(Carleton Coll.), Ph.D.(Yale)

A.T. McKinnon; M.A.(Tor.), Ph.D.(Edin.), B.D.(McG.), F.R.S.C., R.D., D.H.L.(St. Olaf) (*William C. Macdonald Emeritus Professor of Moral Philosophy*)

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*)

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.(C'nell), Ph.D.(Ill.-Chic.)

S. Menn; M.A., Ph.D.(Chic.), M.A., Ph.D.(Johns Hop.)

G. Mikkelson; 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., LL.B.(Syd.), Ph.D.(Princ.) (*joint appt. with Social Studies of Medicine*)

Associate Professors

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)

I. Macdonald (Montr.)

12.11.17.5 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 692	(6)	M.Sc. Thesis Research Progress Report
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 543	(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.

12.11.17.6 Doctor of Philosophy (Ph.D.); Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (18 credits)

PHIL 607	(6)	Pro-Seminar 1

PHIL 682	(6)	Pro-Seminar 3
PHIL 685	(3)	Fundamentals of Logic
PHIL 690	(3)	Candidacy Paper

Complementary Courses

(21-27 credits)

Students admitted to Ph.D. 1 require nine complementary courses.

Students admitted to Ph.D. 2 require seven complementary courses.

Minimum of two courses from the following

PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy
PHIL 561	(3)	Seminar: 18th Century Philosophy
PHIL 567	(3)	Seminar: 19th Century Philosophy
PHIL 575	(3)	Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of 2 courses from the following:

PHIL 534	(3)	Seminar: Ethics
PHIL 543	(3)	Seminar: Medical Ethics
PHIL 544	(3)	Political Theory
PHIL 548	(3)	Seminar: Philosophy of Law

and/or any other course at the 500, 600 or 700 level in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of 2 courses from the following:

PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 507	(3)	Seminar: Cognitive Science
PHIL 510	(3)	Seminar: Advanced Logic 2
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 515	(3)	Seminar: Philosophy of Language
PHIL 519	(3)	Seminar: Epistemology
PHIL 521	(3)	Seminar: Metaphysics
PHIL 570	(3)	Seminar: Contemporary Analytic Philosophy

and/or any other course at the 500 level or higher in Metaphysics and Epistemology recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

The remaining course(s) must be at the 500, 600, or 700 level and are to be chosen in consultation with the student's advisory committee.

Language Requirement

One research language at the advanced level or two research languages at the intermediate level.

12.11.17.7 Doctor of Philosophy (Ph.D.); Philosophy — Environment

The Graduate option in Environment provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence that political, socioeconomic and ethical judgments have. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (24 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
PHIL 607	(6)	Pro-Seminar 1
PHIL 682	(6)	Pro-Seminar 3
PHIL 685	(3)	Fundamentals of Logic
PHIL 690	(3)	Candidacy Paper

Complementary Courses

(24-30 credits)

Students admitted to Ph.D. 1 require ten complementary courses

Students admitted to Ph.D. 2 require eight complementary courses

Minimum of two courses from the following:

PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy
PHIL 561	(3)	Seminar: 18th Century Philosophy
PHIL 567	(3)	Seminar: 19th Century Philosophy
PHIL 575	(3)	Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 534	(3)	Seminar: Ethics
PHIL 543	(3)	Seminar: Medical Ethics
PHIL 544	(3)	Political Theory
PHIL 548	(3)	Seminar: Philosophy of Law

and/or any other course at the 500 level or higher in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 507	(3)	Seminar: Cognitive Science
PHIL 510	(3)	Seminar: Advanced Logic 2
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 515	(3)	Seminar: Philosophy of Language
PHIL 519	(3)	Seminar: Epistemology
PHIL 521	(3)	Seminar: Metaphysics
PHIL 570	(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.

12.11.17.8 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
WMST 602	(3)	Feminist Research Symposium

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:

PHIL 551	(3)	Seminar: Ancient Philosophy 2
PHIL 556	(3)	Seminar: Medieval Philosophy
PHIL 561	(3)	Seminar: 18th Century Philosophy
PHIL 567	(3)	Seminar: 19th Century Philosophy
PHIL 575	(3)	Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 534	(3)	Seminar: Ethics
PHIL 542	(3)	Seminar: Feminist Theory
PHIL 543	(3)	Seminar: Medical Ethics
PHIL 544	(3)	Political Theory
PHIL 548	(3)	Seminar: Philosophy of Law

and/or any other course at the 500, 600, or 700 level in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 506	(3)	Seminar: Philosophy of Mind
PHIL 507	(3)	Seminar: Cognitive Science
PHIL 510	(3)	Seminar: Advanced Logic 2
PHIL 511	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 515	(3)	Seminar: Philosophy of Language
PHIL 519	(3)	Seminar: Epistemology
PHIL 521	(3)	Seminar: Metaphysics
PHIL 570	(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 additional course selected from the list of Women's Studies graduate course offerings (below), or other graduate option-approved courses from participating departments.

WMST 501	(3)	Advanced Topics 1
WMST 513	(3)	Gender, Race and Science

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.

12.11.18 Political Science

12.11.18.1 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*

12.11.18.2 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*.

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 12.11.18.5: 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 12.11.18.6: 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/studies/option*.

section 12.11.18.7: 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 12.11.18.8: 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 12.11.18.9: 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/studies/option*.

section 12.11.18.10: 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 12.11.18.11: 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 12.11.18.12: 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 12.11.18.13: 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 12.11.18.14: 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*.

12.11.18.3 Political Science Admission Requirements and Application Procedures

12.11.18.3.1 Admission Requirements

The graduate Admissions Committee only considers applications from those who already have an undergraduate academic degree in political science or a closely related field (e.g., international studies, sociology, philosophy for prospective political theorists, etc.). Those without this required background occasionally enrol as Special Students in the undergraduate program and take upper-level undergraduate courses in order to build the academic record necessary to apply to the graduate program.

Master's

Students holding a B.A. degree may be eligible for admission to the M.A. program. Preparation equivalent to a McGill Honours 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* 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* 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* and *www.ets.org/toefl*.

12.11.18.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.18.3.2.1 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.

12.11.18.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

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*.

12.11.18.4 Political Science Faculty

Chair

Hudson Meadwell

Director of Graduate Program

Stuart Soroka

Emeritus Professors

Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)

Blema Steinberg; B.A.(McG.), M.A.(C'nell), Ph.D.(McG.)

Professors

Mark R. Brawley; B.A., M.A., Ph.D.(Calif.-LA)

Michael Brecher; B.A.(McG.), M.A., Ph.D.(Yale), F.R.S.C. (*R.B. Angus Professor of Economics and Political Science*) (*on leave Winter 2014*)

Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)

Elisabeth Gidengil; B.A.(Lond.), M.A.(NYU), Ph.D.(McG.) (*on leave Winter 2014*)

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*)

Professors

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.)

Éric Bélanger; B.A., M.A.(Laval), Ph.D.(Montr.)

Juliet Johnson; A.B.(Stan.), M.A., Ph.D.(Princ.)

Erik Kuhonta; B.A.(Penn.), M.A.(C'nell), Ph.D.(Stan.)

Jacob Levy; A.B.(Brown), M.A., Ph.D.(Princ.)

Catherine Lu; B.A., M.A.(Br. Col.), Ph.D.(Tor.)

Antonia Maioni; M.A.(Car.), Ph.D.(N'western)

Hudson Meadwell; B.A.(Manit.), M.A., Ph.D.(Duke)

Khalid Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.) (*on leave Winter 2014*)

Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*William Dawson Scholar*)

Stuart Soroka; B.A.(Qu.), M.A.(Car.), Ph.D.(Br. Col.) (*William Dawson Scholar*)

Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.)

Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)

Christina Tarnopolsky; B.A.(Tor.), M.A., Ph.D.(Chic.)

Assistant Professors

Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin)

Victor Muñiz-Fraticelli; M.A., Ph.D.(Chic.)

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town)

Maria Popova; B.A.(Dart.), Ph.D.(Harv.)

William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)

Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.) (*on leave 2013–2014*)

Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)

Assistant Professor (Non-Tenure Track)

Jason Ferrell; M.A.(Tulane), Ph.D.(McG.)

12.11.18.5 Master of Arts (M.A.); Political Science (Thesis) (45 credits)

Thesis Courses (24 credits)

A thesis is required to demonstrate proficiency in research. It is normally about 100 pages long and is subject to evaluation by one examiner internal to the Department and one examiner external to the Department.

POLI 697	(12)	M.A. Thesis Proposal
POLI 698	(12)	Master's Thesis Submission

Required Course (6 credits)

POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (15 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612	(3)	Research 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.

12.11.18.6 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.

12.11.18.7 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 availabe 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.

12.11.18.8 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.

12.11.18.9 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
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought

POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

12-15 credits of additional 500- or 600-level courses related to international development studies. Course list is available from the Department.

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program in international development studies approved by the Department.

12.11.18.10 Master of Arts (M.A.); Political Science (Non-Thesis) — European Studies (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Courses (9 credits)

POLI 659	(3)	Interdisciplinary Seminar in European Studies
POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612	(3)	Research 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 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 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.

12.11.18.11 Master of Arts (M.A.); Political Science (Non-Thesis) — Gender and Women's Studies (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Courses (9 credits)

POLI 691	(6)	Bibliographic Methods 1
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options, or preferably, both:

POLI 612	(3)	Research Design and Empirical Methods

or a suitable more advanced course at the graduate level.

or one of the following courses:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

9-12 credits at the 500- or 600-level as determined by the student's area of study.

3 additional credits in gender/women's studies, either:

WMST 602	(3)	Feminist Research Symposium

or another approved course on gender/women's studies.

Note: Should the "other" approved gender/women's studies course be taken in the Department of Political Science, the student is eligible to take a 500- or 600-level course as determined by the student's area of study outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

12.11.18.12 Master of Arts (M.A.); Political Science (Non-Thesis) — Social Statistics (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 credits chosen from the following:

ECON 688	(3)	Seminar on Social Statistics
POLI 688	(3)	Seminar on Social Statistics
SOCI 688	(1.5)	Social Statistics 1

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:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

12-15 credits of 500- or 600-level POLI courses; up to 6 credits in related disciplines may be allowed if they are appropriate to the program.

Candidates for the M.A. degree follow a program approved on an individual basis by the Department.

~~12.11.18.13~~ Doctor of Philosophy (Ph.D.); Political Science

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

POLI 701	(0)	Ph.D. General Written Examination First Field
POLI 702	(0)	Ph.D. General Written Examination Second Field
POLI 799	(0)	Ph.D. Oral Comprehensive Examination

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.

12.11.18.14 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)

POLI 701	(0)	Ph.D. General Written Examination First Field
POLI 702	(0)	Ph.D. General Written Examination Second Field
POLI 799	(0)	Ph.D. Oral Comprehensive Examination
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

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 fulfil this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Statistical Methods: To fulfil this requirement, students must complete a course (at the 500 level or higher) in advanced statistical methods.

12.11.19 Psychology

12.11.19.1 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*

12.11.19.2 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.

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 *Programs, Courses and University Regulations > Faculty of Medicine > Graduate > Academic Programs > section 19.11.14: 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 12.11.19.5: 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 24.11.9.5: 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 12.11.19.6: Doctor of Philosophy (Ph.D.); Psychology

Please contact the Department for more information about this program.

section 12.11.19.7: 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 12.11.19.8: 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.

12.11.19.3 Psychology Admission Requirements and Application Procedures

12.11.19.3.1 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.

12.11.19.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

12.11.19.3.2.1 Additional Requirements

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

- A completed Psychology *Summary Sheet* [.rtf] (upload in Academic Information Background Form)
- 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.

12.11.19.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 15	Fall: Dec. 15	Fall: Dec. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.19.4 Psychology Faculty

Chair

David Zuroff

Emeritus Professors

A.S. Bregman; M.A.(Tor.), Ph.D.(Yale)

D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(C'nell)

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.)

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.)

Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)

N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

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.)

F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)

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.(C'nell) (*Canada Research Chair in Cognitive Neuropsychology Performance*)

M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)

B. Sherwin; B.A., M.A., Ph.D.(C'dia) (*Canada Research Chair in Hormones, Brain and Cognition*)

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

A.G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)

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*)

M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)

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)

Lecturers

R. Amsel, 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

Montreal Neurological Institute and Hospital: J. Armony, A. Dagher, L.K. Fellows, D. Guitton, M. Jones-Gotman, M. Lepage, B. Milner, E. Ruthazer, W. Sossin, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, M. Leyton, J. Pruessner, A. Raz

Adjunct Professors

M. Bruck, S. Burstein, P. Delisle, J. Gradinger, S. Harnad, Z. Pleszewski, A.G. Ryder, P. Zelazo

Part-Time Appointments

E. Foley, J. LeGallais

12.11.19.5 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)

PSYC 690	(15)	Masters Research 1
PSYC 699	(12)	Masters Research 2

Required Courses (18 credits)

PSYC 601	(6)	Master's Comprehensive
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

12.11.19.6 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)

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 degree 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

12.11.19.7 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)

EDSL 711	(2)	Language Acquisition Issues 3
LING 710	(2)	Language Acquisition Issues 2
PSYC 701	(6)	Doctoral Comprehensive Examination

PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

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:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Complementary Courses (9 credits)

One graduate-level course in statistics, such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

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:

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
EDSL 664	(3)	Second Language Research Methods
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

12.11.19.8 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

12.11.20 Quebec Studies / Études sur le Québec

12.11.20.1 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

12.11.20.2 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 modifée 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.

12.11.21 Social Studies of Medicine

12.11.21.1 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*

12.11.21.2 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 12.11.1.10: Master of Arts (M.A.); Medical Anthropology (Thesis) (48 credits)

The program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences. The M.A. degree is awarded by the Anthropology Department and admission is granted by a joint Admissions Committee made up of representatives from Anthropology and the Department of Social Studies of Medicine.

section 12.11.10.13: 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 12.11.23.9: Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (48 credits)

This includes 18 credits of coursework and a research thesis that is based on original research (30 credits).

section 12.11.23.14: 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 12.11.1: Anthropology*, *section 12.11.10: History and Classical Studies*, or *section 12.11.23: Sociology*.

12.11.21.3 Social Studies of Medicine Admission Requirements and Application Procedures

12.11.21.3.1 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 12.11.1: Anthropology*, *section 12.11.10: History and Classical Studies*, or *section 12.11.23: Sociology*.

12.11.21.3.2 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/requirements*.

Ph.D. Programs

Please refer to the appropriate department: *section 12.11.1: Anthropology*, *section 12.11.10: History and Classical Studies*, or *section 12.11.23: Sociology*.

12.11.21.3.3 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.

12.11.21.4 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. 3rd 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.)

12.11.22 Social Work

12.11.22.1 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*

12.11.22.2 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. A parallel stream is offered in French at *Université de Montréal*. Students have the option of taking courses at either university.

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: 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 12.11.22.6: 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 12.11.22.7: 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 includes 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 12.11.22.8: 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 12.11.22.9: 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; psychosocial approaches to intervention; 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.

12.11.22.3 Social Work Admission Requirements and Application Procedures

12.11.22.3.1 Admission Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Systems) Office. An institutional version of the TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available.

- 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. Normally, applicants will 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 admission to 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.

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.

12.11.2.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

Applications will only be considered upon receipt of all required documents.

12.11.2.3.2.1 Additional Requirements

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

- Ph.D. applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Research Proposal
  - Writing Sample
  - One-page Narrative
  - Statement of Availability
- 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)
- Qualifying year of study applicants:
  - Curriculum Vitae (using form provided)
  - Program Application Face Sheet
  - Statement of Interest for Social Work

Details regarding these requirements can be found on the Department website at: *www.mcgill.ca/socialwork/prospective*.

12.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15

Canadian	International	Special/Exchange/Visiting
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.22.4 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.)

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

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

Sharon Bond; B.A.(Sir G. Wms.), B.Sc.(Montr.), M.S.W., Ph.D.(McG.)

Heather MacIntosh; B.A., Ph.D.(Ott.)

David Rothwell; B.A.(Pitzer), M.S.W.(Tulane), Ph.D.(Hawaii)

Coordinator of Field Education

Francine Granner; B.S.W., M.S.W.(McG.)

Associate Coordinator of Field Education

Karen Hetherington; B.A.(C'dia), M.A.(Montr.)

12.11.22.5 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*.

12.11.22.6 Master of Social Work (M.S.W.); Social Work (Thesis) (45 credits)

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories which inform practice, policy, and research. Envisioned as an opportunity to advance knowledge and skills, students are encouraged to immerse themselves in an area of scholarship and practice related to "Children and Families," "Social Care and Health Studies," and "Community and International Development." In addition, students investigate a subject matter of their choice in one of these broad areas of study through an independent study project or a master's thesis. Through the M.S.W. program, students develop critical and innovative approaches to practice competence and to policy analysis such that they may contribute to both established social services and to new and less developed areas of service provision.

Thesis Courses (27 credits)

SWRK 698	(12)	Thesis Research 1
SWRK 699	(15)	Thesis Research 2

Required Courses (6 credits)

SWRK 643	(3)	Research Methods 2
SWRK 653	(3)	Research Methods 1

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional Ordre after graduation but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Elective Courses (12 credits)

12 credits of SWRK 500- or 600- level courses; up to 6 credits in total may be taken outside the Department.

12.11.22.7 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)

SWRK 690	(9)	Independent Study Project

Required Courses (18 credits)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3

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 fulfil the research requirement. All students must secure the approval of their adviser prior to registration for such courses.

12.11.22.8 Joint Master of Social Work (M.S.W.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) (132 credits)

Revision, June 2013. Start of revision.

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)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3
SWRK 691	(12)	Social Work / Law Independent Study Project

Complementary - 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)

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

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.

Revision, June 2013. End of revision.

12.11.22.9 Doctor of Philosophy (Ph.D.); Social Work

(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.

12.11.23 Sociology

12.11.23.1 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*

12.11.23.2 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 – Environment Option (Thesis) (*not offered in 2013–2014*)
- 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 – Neotropical Environment Option (Thesis) (*not offered in 2013–2014*)
- Master of Arts in Sociology – Social Statistics Option (Non-Thesis)
- Doctor of Philosophy in Sociology
- Doctor of Philosophy in Sociology – Environment Option (*not offered in 2013–2014*)
- Doctor of Philosophy in Sociology – Gender and Women's Studies Option

We have particular strengths 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 12.11.23.5: Master of Arts (M.A.); Sociology (Thesis) (48 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 12.11.23.6: Master of Arts (M.A.); Sociology (Thesis) — Development Studies (48 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 12.11.23.7: Master of Arts (M.A.); Sociology (Thesis) — Environment (48 credits)

Not offered in 2013–2014.

section 12.11.23.8: Master of Arts (M.A.); Sociology (Thesis) — Gender and Women's Studies (48 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 12.11.23.9: Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (48 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 12.11.23.10: Master of Arts (M.A.); Sociology (Thesis) — Neotropical Environment (48 credits)

Not offered in 2013–2014.

section 12.11.23.11: 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 12.11.23.12: 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 12.11.23.13: 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 12.11.23.14: 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 12.11.23.15: 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 12.11.23.16: 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 fully 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 12.11.23.17: Doctor of Philosophy (Ph.D.); Sociology — Environment

Not offered in 2013–2014.

section 12.11.23.18: 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.

12.11.23.3 Sociology Admission Requirements and Application Procedures

12.11.23.3.1 Admission Requirements

Applicants must have a bachelor's degree with a standing equivalent to a cumulative grade point average (CGPA) of 3.3 or better out of a possible 4.0. The degree may be either in Sociology or in another relevant social science. In the latter case, applicants may be required to take some additional sociology courses to fill gaps in their background.

The strength of an applicant's academic record is of primary importance in consideration of an applicant's dossier. For a detailed description of courses open to graduates and undergraduates, and of preparation required of McGill University honours students, candidates should consult the Undergraduate eCalendar available at *www.mcgill.ca/study*.

All applicants are asked to submit an example of their written work. Applicants not registered at Canadian universities must submit with their applications the results of the Verbal and Quantitative aptitude tests of the Graduate Record Examination (GRE). Canadian students are also encouraged to submit the results of this test with their application. 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*.

Candidates who lack sufficient preparation in the social sciences, but whose academic record justifies consideration for eventual admission to the master's graduate program, must register for a Qualifying year during which they are required to take courses to broaden their knowledge of sociology. Candidates must achieve a final grade of at least a B in these courses and an average in all courses of at least B+; in general, they must, in the opinion of the Department, have achieved sufficient preparation in the subject matter of sociology before they will be allowed to proceed with graduate work. All candidates are expected to have taken courses in statistics, research methods, and sociological theory at the undergraduate level.

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 Chair of the Graduate Admissions Committee to guide them.

The program of study is designed to give students an advanced understanding of a major field in sociology, of current methods of sociological research, and of some principal theoretic issues in the discipline. Three terms of residence study is the minimum requirement for a master's degree. For the doctoral program, three years is the minimum residency requirement for students entering at the Ph.D. 1 level (those students without an M.A.) and two years for students entering at the Ph.D. 2 level (those with an M.A.).

12.11.23.3.2 Application Procedures

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

See *section 11.6.3: 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.

12.11.23.3.2.1 Additional Requirements

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

- Letters of reference must be submitted using departmental forms (available at *www.mcgill.ca/sociology/grad/gapplications*)
- GRE – for applicants not registered at Canadian universities
- 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

12.11.23.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

12.11.23.4 Sociology Faculty

Chair

Céline Le Bourdais

Graduate Program and Admissions Director

TBA

Emeritus Professors

Maurice Pinard; B.A., LL.L., M.A.(Montr.), Ph.D.(Johns Hop.), F.R.S.C.

Peta Tancred; B.A.(McG.), M.A.(Montr.), Ph.D.(LSE)

Professors

Alberto Cambrosio; M.A.(Sher.), Ph.D.(Montr.) (*Social Studies of Medicine*)

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.)

Professors

Morton Weinfeld; B.A.(McG.), Ed.M., Ph.D.(Harv.) (*Chair, Canadian Ethnic Studies*)

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.) (*on sabbatical Winter 2014*)

Shelley Clark; B.A.(Virg.), M.A., Ph.D.(Princ.) (*Canada Research Chair in Youth, Gender and Global Health*) (*Director, Centre on Population Dynamics*)

Kathleen Fallon; B.A.(Calif.), M.A., Ph.D.(Ind.) (*Chair, African Studies Program*) (*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.)

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.)

Eran Shor; B.A., M.A.(Haifa), M.A., Ph.D.(Stony Brook)

Zoua Vang; B.A.(Penn.), M.A., Ph.D.(Harv.)

Associate Members

Gregory Baum (*Religious Studies*)

Jennifer Fishman (*Social Studies of Medicine – Biomedical Ethics Unit*)

Robert E. Whitley (*Psychiatry*)

12.11.23.5 Master of Arts (M.A.); Sociology (Thesis) (48 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

Thesis Courses (33 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 692	(3)	M.A. Thesis 3
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (12 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Course (3 credits)

One 3-credit graduate-level course, which may be in a cognate field, subject to the approval of the Graduate Committee.

12.11.23.6 Master of Arts (M.A.); Sociology (Thesis) — Development Studies (48 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

The M.A. thesis must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

Thesis Courses (33 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 692	(3)	M.A. Thesis 3
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (15 credits)

INTD 657	(3)	Development Studies Seminar
SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

12.11.23.7 Master of Arts (M.A.); Sociology (Thesis) — Environment (48 credits)

This program is currently under review and is not offered in 2013-2014.

Thesis Courses (27 credits)

An environmental component is required in the thesis.

SOCI 690	(3)	M.A. Thesis 1
SOCI 692	(3)	M.A. Thesis 3
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (18 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
SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (3 credits)

3 credits 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, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

12.11.23.8 Master of Arts (M.A.); Sociology (Thesis) — Gender and Women's Studies (48 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

Thesis Courses (30 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.

SOCI 691	(6)	M.A. Thesis 2
SOCI 692	(3)	M.A. Thesis 3
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (15 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory
WMST 601	(3)	Feminist Theories and Methods

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary 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).

12.11.23.9 Master of Arts (M.A.); Sociology (Thesis) — Medical Sociology (48 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

This program is given jointly by the Sociology Department and the Department of Social Studies in Medicine.

Thesis Courses (30 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 692	(3)	M.A. Thesis 3
SOCI 693	(3)	M.A. Thesis 4

SOCI 695	(15)	M.A. Thesis 6

Required Courses (12 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

3 credits, one of the following courses:

SOCI 515	(3)	Medicine and Society
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

3 credits, one graduate-level course in History of Medicine.

12.11.23.10 Master of Arts (M.A.); Sociology (Thesis) — Neotropical Environment (48 credits)

This program is currently under review and is not offered in 2013-2014.

McGill University and the Smithsonian Tropical Research Institute (STRI) have joined forces to offer graduate studies in neotropical environment. These are offered as options within existing programs in Biology, Bioresource Engineering, Geography, Political Science, Plant Science, Renewable Resources, and Sociology. Students must meet the Graduate and Postdoctoral Studies admission requirements, enter through one of the participating departments and meet the requirements of that unit. Advisers will be McGill professors and STRI scientists. The degree is granted by McGill University.

To provide students with some research experience, all candidates in this program must present a thesis based on their own research with the thesis fieldwork conducted in Latin America on a topic approved by the Neotropical Environment Option coordinating committee.

Thesis Courses (27 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 692	(3)	M.A. Thesis 3
SOCI 695	(15)	M.A. Thesis 6

Required Courses (18 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (3 credits)

3 credits from one of the following courses:

AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 553	(3)	Neotropical Environments
ENVR 680	(3)	Topics in Environment 4
SOCI 565	(3)	Social Change in Panama

12.11.23.11 Master of Arts (M.A.); Sociology (Non-Thesis) (45 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

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 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
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 of complementary courses at the 500, 600 or 700 level.

12.11.23.12 Master of Arts (M.A.); Sociology (Non-Thesis) — Development Studies (45 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

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)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (21 credits)

INTD 657	(3)	Development Studies Seminar
SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits of complementary courses at the 500, 600, or 700 level related to international development studies from the following list:

SOCI 505	(3)	Quantitative Methods 2
SOCI 510	(3)	Seminar in Social Stratification
SOCI 511	(3)	Movements/Collective Action
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 515	(3)	Medicine and Society
SOCI 520	(3)	Migration and Immigrant Groups
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 565	(3)	Social Change in Panama
SOCI 571	(3)	Deviance and Social Control
SOCI 688	(1.5)	Social Statistics 1
SOCI 720	(3)	Reading in Social Theory
SOCI 730	(3)	Reading and Research

12.11.23.13 Master of Arts (M.A.); Sociology (Non-Thesis) — Gender and Women's Studies (45 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (21 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 652*	(3)	Current Sociological Theory
WMST 601	(3)	Feminist Theories and Methods

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level including:

WMST 602	(3)	Feminist Research Symposium

or one 3-credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside of the Department).

12.11.23.14 Master of Arts (M.A.); Sociology (Non-Thesis) — Medical Sociology (45 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

This program is given jointly by the Sociology Department and the Department of Social Studies in Medicine.

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (18 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods
SOCI 580*	(3)	Social Research Design and Practice
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (9 credits)

3 credits, one of the following courses:

SOCI 515	(3)	Medicine and Society
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

3 credits, one graduate-level course in History of Medicine.

3 credits, one graduate-level course in Social Studies of Medicine.

12.11.23.15 Master of Arts (M.A.); Sociology (Non-Thesis) — Social Statistics (45 credits)

This program is currently under review. Students should contact the Program Adviser for more information.

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)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (21 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 540*	(3)	Qualitative Research Methods

SOCI 580*	(3)	Social Research Design and Practice
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 652*	(3)	Current Sociological Theory
SOCI 688	(1.5)	Social Statistics 1
SOCI 689	(1.5)	Social Statistics 2

* 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.

12.11.23.16 Doctor of Philosophy (Ph.D.); Sociology

This program is currently under review. Students should contact the Program Adviser for more information.

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)

Ph.D. candidates must take examinations in two subfields of Sociology. These fields will be chosen from the Department's areas of specialization.

SOCI 505	(3)	Quantitative Methods 2
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

Complementary Courses (27 credits)

(15-27 credits)

Five substantive courses at the 500, 600, or 700 level offered by the Department subject to the approval of the Graduate Committee.

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

SOCI 504	(3)	Quantitative Methods 1
SOCI 540	(3)	Qualitative Research Methods
SOCI 580	(3)	Social Research Design and Practice
SOCI 652	(3)	Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above or SOCI 505, another one must then be substituted in its place. If you are admitted at the Ph.D. 2 level a substitution will only be required in the case of an exemption from SOCI 505.

Language Requirement

Ph.D. Candidates must demonstrate ability to read French with high proficiency or to read another language relevant to their field of research. The language requirement should be met by the end of the third year and may be satisfied by taking an approved French language course(s) at the French Language Centre at McGill, or by a written examination in the Department or by exemption.

12.11.23.17 Doctor of Philosophy (Ph.D.); Sociology — Environment

This program is currently under review and is not offered in 2013-2014.

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.

An environmental component is required in the thesis.

Required Courses (9 credits)

Ph.D. candidates must take examinations in two subfields of sociology. These fields will be chosen from the Department's areas of specialization.

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
SOCI 505	(3)	Quantitative Methods 2
SOCI 700	(0)	Ph.D. Area Examination 1
SOCI 701	(0)	Ph.D. Area Examination 2
SOCI 702	(0)	Ph.D. Proposal Approval

Complementary Courses (9 credits)

One course selected from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

Two courses at the 500, 600, or 700 level chosen from among the elective courses listed in the Sociology Department course offerings.

Students who have not taken the following courses must make up the deficiencies in addition to the regular coursework:

SOCI 504	(3)	Quantitative Methods 1
SOCI 540	(3)	Qualitative Research Methods
SOCI 580	(3)	Social Research Design and Practice
SOCI 652	(3)	Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above or SOCI 505, another one must then be substituted in its place. If you are admitted at the Ph.D. 2 level a substitution will only be required in the case of an exemption from SOCI 505.

12.11.23.18 Doctor of Philosophy (Ph.D.); Sociology — Gender and Women's Studies

This program is currently under review. Students should contact the Program Adviser for more information.

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)

Ph.D. candidates must take examinations in two subfields of sociology. These fields will be chosen from the Department's areas of specialization.

SOCI 505	(3)	Quantitative Methods 2
SOCI 700	(0)	Ph.D. Area Examination 1
SOCI 701	(0)	Ph.D. Area Examination 2
SOCI 702	(0)	Ph.D. Proposal Approval
SOCI 703	(0)	Bibliographic Methods 3
SOCI 704	(0)	Bibliographic Methods 4
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Research proposal is subject to Department approval and to approval by the participating faculty members in the Gender and Women's Studies program.

Complementary Courses

(15-27 credits)

Five courses at the 500, 600, or 700 level.

Four of these five courses must be taken within the Department, one of the five must be on gender/women's issues.

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

SOCI 504	(3)	Quantitative Methods 1
SOCI 540	(3)	Qualitative Research Methods
SOCI 580	(3)	Social Research Design and Practice
SOCI 652	(3)	Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above or SOCI 505, another one must then be substituted in its place. If you are admitted at the Ph.D. 2 level, a substitution will only be required in the case of an exemption from SOCI 505.

13 Faculty of Dentistry

13.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

13.2 Graduate and Postdoctoral Studies

13.2.1 Administrative Officers

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

13.2.2 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.

13.2.3 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.

13.3 Important Dates 2013–2014

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

13.4 Graduate Studies at a Glance

13.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

13.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

13.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)

Master of Arts (M.A.)		
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment

Master of Science (M.Sc.)		
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

13.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

13.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

13.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

13.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

13.5 Program Requirements

13.5.1 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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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.

13.5.2 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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*.

13.5.3 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/apply/prepare#program* and contact the relevant department.

13.5.4 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 studies must be approved by GPS before registration. Double counting is not permitted.

13.6 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 permits. 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.

13.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

13.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

13.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

13.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

13.6.4 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* 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*.

13.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

13.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

13.6.7 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.

13.6.8 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.

13.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

13.6.10 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.

Revised – Council of February 9, 2004.

13.6.11 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.

13.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

13.8 Postdoctoral Research

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

13.8.1 Postdocs

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

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

13.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

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

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

13.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

13.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the Funding Council Leave Policies for Graduate Students and Postdoctoral Fellows."

13.8.5 Postdoctoral Research Trainees

Eligibility

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

The category of Postdoctoral Research Trainee is for:

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

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

Category 3: An individual who holds a professional degree (or equivalent) in a regulated health profession (as defined under CIHR-eligible health profession) and is enrolled in a program of postgraduate medical education at another institution. The individual wishes to conduct the research stage or elective component of his/her program of study at McGill University under the supervision of a McGill professor. The individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. The application must be accompanied by a letter of permission from the home institution (signed by the Department Chair, Dean or equivalent) confirming registration in 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.

13.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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

13.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: Research Policy and Guidelines, Patents, Postdocs, Associates, Trainees* for information on the following:

- Policy on Research Ethics
- Regulations on Research Policy
- Policy on Research Integrity
- Guidelines for Research Involving Human Subjects
- Guidelines for Research with Animal Subjects
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

13.11 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

13.11.1 Dentistry

13.11.1.1 Location

Faculty of Dentistry
3640 University Street
Montreal, QC H3A 0C7
Canada

Telephone: 514-398-7203

Fax: 514-398-2028
Website: *www.mcgill.ca/dentistry*

13.11.1.2 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 13.11.1.5: 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 13.11.1.6: 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 13.11.1.7: 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.

13.11.1.3 Dentistry Admission Requirements and Application Procedures

13.11.1.3.1 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.

13.11.1.3.2 Application Procedures

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

See *section 11.6.3: 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/oral-and-maxillofacial-surgery-training-programs/4-year-residency-oral-and-maxillofacial.

13.11.1.3.2.1 Additional Requirements

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

- Personal Statement

13.11.1.3.3 Application Deadlines

M.Sc. in Dental Sciences (Thesis) and M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: June 30	Fall: Apr. 30	Fall: Same as Canadian/International
Winter: Nov. 15	Winter: Sept. 30	Winter: Same as Canadian/International
Summer: March 30	Summer: Feb. 28	Summer: Same as Canadian/International

M.Sc. in Dental Sciences (Non-Thesis)		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: March 1	Fall: March 1	Fall: March 1
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

13.11.1.4 Dentistry Faculty

Dean, Faculty of Dentistry

P.J. Allison

Associate Dean, Graduate Studies and Research

M.D. McKee

Director, Graduate Studies

S. Tran

Director, Graduate Program in Oral and Maxillofacial Surgery

M. El-Hakim; D.M.D., M.D.(Montr.), M.Sc.(McG.), F.R.C.D.(C), Dipl.ABOMS

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.)

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.(Paris)

Associate Professors

R. Albuquerque; D.D.S., Ph.D.(Brazil)

C. Bedos; D.D.S.(Paris), M.Sc., Ph.D.(Montr.)

P.J. Chauvin; B.Sc., D.D.S.(McG.), M.Sc.(W. Ont.), F.A.A.O.P., F.R.C.D.(C)

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

Associate Professors

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.)

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.(Brazil), M.Sc., Ph.D.(Lond.)

J.-M. Retrouvey; D.M.D.(Montr.), M.Sc.(Boston)

S. Schwartz; D.M.D.(Montr.), M.Sc. Cert. Pedo.(Boston), F.I.C.D., F.A.C.D.

S. Tran; D.M.D.(Montr.), Cert. Perio, Ph.D.(Minn.)

H. Vali; B.Sc., Ph.D.(Germany)

Assistant Professors

M.E. Macdonald; M.A.(Dal.), Ph.D.(McG.)

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.)

F. Tamimi; D.M.D.(Jordan), Ph.D.(Madrid)

A. Velly; D.D.S.(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.(Univ. Paris XIII), Ph.D.(Laval)

Adjunct Professors

M.-C. Rousseau; B.Sc.(UQAM), M.Sc., Ph.D.(McG.)

A. F. Smith; B.A.(McG.), M.Sc., Ph.D.(Lond.)

Associate Members

E.L. Franco, E.G. Gisel, J. Morais, H. Warshawsky

13.11.1.5 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:

ANAT 663D1	(3)	Histology
ANAT 663D2	(3)	Histology
DENT 504	(3)	Biomaterials and Bioperformance
DENT 654	(3)	Mechanisms and Management of Pain
DENT 672	(3)	Applied Mixed Methods in Health Research
EPIB 621	(4)	Data Analysis in Health Sciences
EPIB 635	(3)	Clinical Trials
EXMD 610	(3)	Molecular Methods in Medical Research

Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

13.11.1.6 Master of Science (M.Sc.); Dental Sciences (Thesis) — Oral and Maxillofacial Surgery (46 credits)

Thesis Courses (30 credits)

DENT 651	(6)	Thesis Research 2
DENT 652	(9)	Thesis Research 3
DENT 653	(15)	Thesis Research 4

Required Courses (16 credits)

DENT 631	(3)	OMFS 2 Seminar
DENT 632	(3)	Clinical OMFS 2
DENT 641	(3)	OMFS 3 Seminar
DENT 642	(3)	Clinical OMFS 3
EPIB 607	(4)	Inferential Statistics

13.11.1.7 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)

DENT 670	(6)	Dental Research Project

Required Courses (17 credits)

DENT 563	(1)	Introduction to Research
DENT 655	(3)	Health Technology Assessment
DENT 671	(4)	Advanced Research Seminar
EPIB 507	(3)	Biostatistics for Health Professionals
EPIB 600	(3)	Clinical Epidemiology
EXMD 610	(3)	Molecular Methods in Medical Research

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)	Special Topics 4
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.

14 Desautels Faculty of Management

14.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

14.4 Graduate Studies at a Glance

14.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma

Faculty of Education	Degrees Available
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

14.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study.

Degree		Prerequisites
		Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

14.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A

Master of Science (M.Sc.)		
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

14.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

14.4.3.1 Doctoral Degree Programs and Specializations

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

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		

The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.

The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).

Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts

Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

14.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

14.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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*.

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/apply/prepare#program* 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/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 studies must be approved by GPS before registration. Double counting is not permitted.

14.6 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 permits. 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.

14.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

14.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

14.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

14.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

14.6.4 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* 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*.

14.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

14.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

14.6.7 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.

14.6.8 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.

14.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

14.6.10 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.

Revised – Council of February 9, 2004.

14.6.11 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.

14.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 Desautels Faculty of Management

14.11.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West
Montreal, QC H3A 1G5
Canada

Telephone: 514-398-4066
Website: *www.mcgill.ca/desautels*

14.11.2 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 14.12.7: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Finance (57 credits)

section 14.12.8: Master of Business Administration (M.B.A.); Management (Non-Thesis) — General Management (57 credits)

section 14.12.9: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

section 14.12.10: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Marketing (57 credits)

section 14.12.11: 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 14.12.12.4: 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 14.12.12.5: 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 14.12.12.6: 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 14.12.12.7: 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 14.12.12.8: 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 14.12.13.4: M.D./M.B.A.; Management (Non-Thesis) (51 credits)

Master of Business Administration (M.B.A.)/Japan

section 14.12.14.4: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Finance (57 credits)

section 14.12.14.5: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — General Management (57 credits)

section 14.12.14.6: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

section 14.12.14.7: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (57 credits)

section 14.12.14.8: 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 14.12.15.4: Executive Master of Business Administration (E.M.B.A.); Joint Executive M.B.A. (Non-Thesis) (45 credits)

Master of Management Programs

section 14.13.4: Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

section 14.13.5: Master of Management (M.M.); IMPM (Non-Thesis) (45 credits)

section 14.13.6: Master of Management (M.M.); IMPMHL (Non-Thesis) (45 credits)

Ph.D. Program

section 14.14.4: Doctor of Philosophy (Ph.D.); Management

Diploma Program and Postgraduate Certificate

section 14.15.4: Graduate Certificate: Post-M.B.A. (15 credits)

section 14.16.5: Graduate Diploma in Public Accountancy (Chartered Accountancy) (30 credits)

14.12 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 14.12.7: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Finance (57 credits)

section 14.12.8: Master of Business Administration (M.B.A.); Management (Non-Thesis) — General Management (57 credits)

section 14.12.9: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

section 14.12.10: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Marketing (57 credits)

section 14.12.11: Master of Business Administration (M.B.A.); Management (Non-Thesis) — Technology and Innovation Management (57 credits)

14.12.1 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 14.12.1: 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.

M.B.A. Admission – Accelerated Study Option

Candidates who hold a Bachelor of Commerce degree from a recognized North American institution with a minimum cumulative grade point average of 3.0 on a four (4) point scale and possess three or more consecutive years of full-time work experience, following completion of their undergraduate degree, may be considered for the accelerated study option. Candidates will be required to complete the core curriculum and take 10 M.B.A. complementary courses. Applicants applying for the accelerated study option must complete and return the application for accelerated study option.

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*

14.12.2 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 11.6.3: Application Procedures* for detailed application procedures.

14.12.2.1 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 14.12.1: 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.

14.12.3 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.

14.12.4 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 *University Regulations and Resources* for 2013–2014 available at *www.mcgill.ca/study*.

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*.

14.12.5 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 *University Regulations and Resources* available at *www.mcgill.ca/study* for further information. The form is available at *www.mcgill.ca/gps/students/registration/dates* (under "Forms & policies").

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.

14.12.6 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, Europe, and Asia. Exchanges with both PIM and non-PIM schools are available.

The following schools may exchange students with McGill in 2013–2014:

- 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 member:

- ESSEC Business School, France
- Solvay Business School, Brussels, Belgium

14.12.7 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:

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 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.

14.12.8 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.

14.12.9 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
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

* 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.

14.12.10 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:

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

* 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.

14.12.11 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:

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 633	(3)	Knowledge Management and Technology for Innovation
INSY 645	(3)	Managing Electronic Commerce
MGPO 650	(3)	Managing Innovation
MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 615	(3)	Procurement and Distribution
MGSC 631	(3)	Analysis: Production Operations
ORGB 625	(3)	Managing Organizational Change

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.

14.12.12 Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) Admission Requirements and Application Procedures

About the Joint Program: Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.)

The Joint Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) and Bachelor of Laws (LL.B.) program is offered by the Desautels Faculty of Management and the Faculty of Law. This joint program provides students the opportunity to pursue legal and administrative aspects of business. Successful candidates graduate with M.B.A., B.C.L., and LL.B. degrees, a trio that prepares them for careers in private and public enterprise, as well as government service.

Master of Business Administration (M.B.A.) with Integrated Bachelor of Civil Law (B.C.L.) / Bachelor of Laws (LL.B.) (144 credits)

section 14.12.12.4: 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 14.12.12.5: 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 14.12.12.6: 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 14.12.12.7: 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 14.12.12.8: 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)

14.12.12.1 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

14.12.12.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

14.12.12.3 Application Deadlines

For application deadlines, please consult the following website: *www.mcgill.ca/desautels/programs/mbalaw*.

14.12.12.4 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)

Students complete 51 credits for the M.B.A. degree, and 93 credits for the integrated B.C.L. and LL.B. degrees, for a total of 144 credits.

Required Courses (24 credits)

BUSA 614	(3)	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

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 (21 credits)

Students choosing the Finance concentration must choose three of the following courses:

ACCT 618	(3)	Financial Reporting: Structure & Analysis
FINE 541	(3)	Applied Investments
FINE 620	(3)	Corporate Mergers
FINE 630	(3)	Fixed Income Markets
FINE 635	(3)	Financial Risk Management
FINE 639	(3)	Derivatives and Risk Management
FINE 645	(3)	Money and Capital Markets
FINE 648	(3)	Applied Corporate Finance
FINE 660	(3)	Global Investment Management
FINE 665	(3)	Investment Strategies and Behavioural Finance
FINE 690	(3)	Advanced Topics in Finance 1
FINE 693	(3)	Global Capital Markets
FINE 694	(3)	International Corporate Finance

Elective Courses

12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

Required - Law (59 credits)

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
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
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LAWG 504	(3)	Death and Property
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights.

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

BUS1 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

Students select the remaining 19-25 credits from among Faculty of Law offerings.

14.12.12.5 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)

Students complete 51 credits for the M.B.A. degree, and 93 credits for the integrated B.C.L. and LL.B. degrees, for a total of 144 credits.

Required Courses (24 credits)

BUSA 614	(3)	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)

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
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
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LAWG 504	(3)	Death and Property
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights.

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

BUS1 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

Students select the remaining 19-25 credits from among Faculty of Law offerings.

14.12.12.6 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)

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

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 (9 credits)

Students choosing the Global Strategy and Leadership concentration must choose three of the following courses:

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

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
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
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LAWG 504	(3)	Death and Property
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights.

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

BUS1 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

Students select the remaining 19-25 credits from among Faculty of Law offerings.

14.12.12.7 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)

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

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
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
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
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
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
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 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

Students select the remaining 19-25 credits from among Faculty of Law offerings.

14.12.12.8 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)

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

Required Concentration Courses (6 credits)

Students choosing the Technology and Innovation Management concentration must complete these required courses:

INSY 606	(3)	Technology Management
MGSC 616	(3)	Technology in Action

Complementary Courses (9 credits)

Students choosing the Technology and Innovation Management concentration must complete three of these complementary courses:

INSY 607	(3)	Technology Consulting
INSY 608	(3)	Winning with IT
INSY 609	(3)	Technology Project Management
INSY 633	(3)	Knowledge Management and Technology for Innovation
INSY 645	(3)	Managing Electronic Commerce
MGPO 650	(3)	Managing Innovation
MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 615	(3)	Procurement and Distribution
MGSC 631	(3)	Analysis: Production Operations
ORGB 625	(3)	Managing Organizational Change

Elective Courses

12 additional credits at the 500 or 600 level offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

Required - Law (59 credits)

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
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law

LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
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

Students select the remaining 19-25 credits from among Faculty of Law offerings.

14.12.13 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 14.12.13.4: 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

Telephone: 514-398-3521
Fax: 514-398-3595

14.12.13.1 Admission Requirements

Admission requirements for the M.B.A. program can be found in *section 14.12: M.B.A. Program*.

For the Faculty of Medicine admission requirements, please visit *www.mcgill.ca/medadmissions*.

14.12.13.2 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 11.6.3: Application Procedures* for detailed application procedures.

See *www.mcgill.ca/medadmissions* for M.D.,C.M. program application procedures.

14.12.13.3 Application Deadlines

For application deadlines, please consult the following website: *www.mcgill.ca/desautels/pmba/admissions/requirements*.

14.12.13.4 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.

14.12.14 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. 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 14.12.14.4: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Finance (57 credits)

section 14.12.14.5: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — General Management (57 credits)

section 14.12.14.6: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

section 14.12.14.7: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (57 credits)

section 14.12.14.8: Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Technology and Innovation Management (57 credits)

14.12.14.1 Admission Requirements

For more information on admission requirements, visit our website at *www.mcgill.ca/desautels/programs/mbajapan/admission*.

14.12.14.2 Application Procedures

For more information on application procedures, visit our website at *www.mcgill.ca/desautels/programs/mbajapan/admission/apply*.

14.12.14.3 Application Deadlines

For application deadlines, visit our website at *www.mcgill.ca/desautels/programs/mbajapan/admission*.

14.12.14.4 Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Finance (57 credits)

This program is not offered in 2013–2014.

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:

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 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

14.12.14.5 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

14.12.14.6 Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Global Strategy and Leadership (57 credits)

This program is not offered in 2013-2014.

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

14.12.14.7 Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Marketing (57 credits)

This program is not offered in 2013–2014.

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

14.12.14.8 Master of Business Administration (M.B.A.)/Japan; Management (Non-Thesis) — Technology and Innovation Management (57 credits)

This program is not offered in 2013–2014.

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 633	(3)	Knowledge Management and Technology for Innovation
INSY 645	(3)	Managing Electronic Commerce
MGPO 650	(3)	Managing Innovation
MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 615	(3)	Procurement and Distribution
MGSC 631	(3)	Analysis: Production Operations
ORGB 625	(3)	Managing Organizational Change

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

14.12.15 Joint Executive M.B.A. Admission Requirements and Application Procedures

About the Joint Executive M.B.A.

section 14.12.15.4: 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.

14.12.15.1 Admission Requirements

For the admission criteria, please consult the following website: *www.embamcgillhec.ca/en/admission-criteria*.

14.12.15.2 Application Procedures

For the application procedures, please consult the following website: *www.embamcgillhec.ca/en/application-to-the-program*.

14.12.15.3 Application Deadlines

For the application deadlines, please consult the following website: *www.embamcgillhec.ca/en/application-to-the-program*.

14.12.15.4 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)

BUSA 642	(4)	Reflective Dimension Manager Role
BUSA 643	(4)	Collaborative Dimension Manager
BUSA 644	(4)	Analytic Dimension of Manager Role
BUSA 645	(4)	Worldly Dimension of Manager Role
BUSA 685	(5)	Managing Change
BUSA 689	(12)	Integrative Project

HEC Montréal courses (12 credits)

MHEC 600	(4)	Création de valeur
MHEC 601	(4)	Excellence opérationnelle
MHEC 602	(4)	Outils et pratiques de gestion

14.13 Master of Management Programs Admission Requirements and Application Procedures

About Master of Management Programs

section 14.13.4: 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.

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.M. program is a self-funded program.

Note: This program is not offered in 2013–2014.

section 14.13.5: 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*.

section 14.13.6: 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*.

14.13.1 Admission Requirements

Please refer to *www.impm.org* for admission information.

14.13.2 Application Procedures

Please refer to *www.mcgill.ca/desautels/programs/imhl/applying* for more information.

14.13.3 Application Deadlines

Please refer to the following websites for more information:

- Manufacturing Management: *www.mcgill.ca/desautels/programs/mmm/admission-application*
- IMPM: *www.impm.org/admissions*
- IMHL: *www.mcgill.ca/desautels/programs/imhl/applying*

14.13.4 Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

Required Courses (30 credits)

MECH 524	(3)	Computer Integrated Manufacturing
MECH 627	(9)	Manufacturing Industrial Stage
MECH 628	(2)	Manufacturing Case Studies
MECH 629	(1)	Manufacturing Industrial Seminar
MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 608	(3)	Data Decisions and Models
MGSC 631	(3)	Analysis: Production Operations

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

14.13.5 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
BUSA 668	(5)	The Venture
BUSA 670	(5)	Managing Organizations
BUSA 672	(3)	Managerial Exchange
BUSA 675	(5)	Managing Context
BUSA 680	(5)	Managing People
BUSA 685	(5)	Managing Change

14.13.6 Master of Management (M.M.); IMPMHL (Non-Thesis) (45 credits)

Research Project (12 credits)

BUSA 689	(12)	Integrative Project

Required Courses (33 credits)

BUSA 666	(5)	The Practice of Management
BUSA 668	(5)	The Venture
BUSA 670	(5)	Managing Organizations
BUSA 672	(3)	Managerial Exchange
BUSA 675	(5)	Managing Context
BUSA 680	(5)	Managing People
BUSA 685	(5)	Managing Change

14.14 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 14.14.4: 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.

The addresses of the three other institutions are:

Concordia University
John Molson School of Business
1450 Guy Street
Montreal, QC H3H 0A1
Canada
Website: *http://johnmolson.concordia.ca/en/graduate-programs/phd-program*

École des Hautes Études Commerciales
3000 Chemin de la Cote Ste-Catherine
Montreal, QC H3T 2A7
Canada
Website: *www.hec.ca/en/programs_training/phd/index.html*

Université du Québec à Montréal
Département des Sciences Administratives
315 Ste-Catherine Est
Montreal, QC H2X 3X2
Canada
Website: *www.phdadm.esg.uqam.ca*

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*

* **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.

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)
- A publishable research paper (MGMT 720, 3 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.

14.14.1 Admission Requirements

Candidates normally hold a master's-level degree, with a strong academic record from a recognized university. Individuals possessing a qualified undergraduate degree with a high GPA will also be considered, and will be required to take additional management graduate courses during their first year in the Ph.D. program.

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. A minimum score of 7 for IELTS is required. Tests must have been written within the past two years.

Files will not be considered unless GMAT (or GRE-General Test) and TOEFL scores are received by the Application 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.

14.14.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

14.14.2.1 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 Background Information questions
- one recent passport-size photo
- Curriculum Vitae

14.14.3 Application Deadlines

For application deadlines, please consult the following website: *www.mcgill.ca/desautels/programs/phd/admissions/deadline*.

14.14.4 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
MGMT 701	(0)	Comprehensive Examination
MGMT 706	(3)	Seminar in Pedagogy
MGMT 707	(3)	Research Methodology
MGMT 720	(3)	Research Paper

Complementary Courses (18 credits)

12 credits of specialization courses

6 credits in the support field

14.15 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.

section 14.15.4: Graduate Certificate: Post-M.B.A. (15 credits)

This program is no longer accepting new students.

14.15.1 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.

14.15.2 Application Procedures

This program is no longer accepting new students.

14.15.3 Application Deadlines

This program is not accepting applications for Fall 2014.

14.15.4 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.

14.16 Graduate Diploma in Public Accountancy (Chartered Accountancy) Admission Requirements and Application Procedures

About the Graduate Diploma in Public Accountancy (Chartered Accountancy)

section 14.16.5: Graduate Diploma in Public Accountancy (Chartered Accountancy) (30 credits)

The Graduate Diploma in Public Accountancy program is under the academic supervision of Graduate and Postdoctoral Studies, and is offered by the Desautels Faculty of Management.

The faculty is comprised of professionally active Chartered Accountants (CAs) with specific areas of expertise. Students benefit from a program of academic counselling, tutoring, and monitoring as they progress through a program in which they are exposed to the latest concepts and practice-related issues.

CAs play leadership roles in public practice, business, industry, government, and education.

Note: This program will not be offered as of Summer 2014.

14.16.1 Admission Requirements

Option 1:

Students completing a bachelor's degree from a recognized institution are required to obtain a minimum CGPA of 3.0 out of 4.0*, and successfully complete the nine qualifying courses listed below, or their equivalent:

ACCT 351 Intermediate Financial Acct 1

ACCT 352 Intermediate Financial Acct 2
ACCT 361 Intermediate Mgmt Accounting 1
ACCT 362 Intermediate Mgmt Accounting 2
ACCT 385 Principles of Taxation
ACCT 453 Advanced Financial Accounting
ACCT 455 Dev of Accounting Thought
ACCT 475 Principles of Auditing
ACCT 486 Business Taxation 2

* Admission to the program is very competitive and meeting the minimum requirement does not secure admission.

Option 2:

Graduates of programs other than Bachelor of Commerce or graduates with foreign degrees must complete the following courses through the School of Continuing Studies' Diploma in Accounting prior to admission to the Graduate Diploma program. Please note that obtaining the minimum requirements does not secure admission to the 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
CCFC 514 Accounting Theory & Practice
CCAU 511 Auditing 1
CCTX 511 Taxation 1
CCTX 532 Taxation 2

For more information, the School of Continuing Studies can be contacted by telephone at 514-398-6161, or by email at *info.conted@mcgill.ca*.

14.16.2 Application Procedures

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

See *section 11.6.3: 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 written request should be submitted to the Director of the C.A. program. If approved, students wishing to defer their admission will be required to submit a confirmation deposit of CAD$500 to secure a place for the following year/term. This fee is non-refundable.

Time Limits

The program must be completed within three years of admission. Time limits will be adjusted accordingly for those students who are granted Advanced Standing or who transfer from one program to another. Students exceeding the time limits may request an extension, in writing, which may be granted under special circumstances with the approval of the Department. Where appropriate, a revised program of study may be recommended.

14.16.2.1 Additional Requirements

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

- Applicants who have been accepted to the program are required to make a CAD$300 deposit via Minerva. This fee is non-refundable and will be applied to the student's fee account.

14.16.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1 (open for Qualifying only)	Fall: N/A	Fall: N/A
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

14.16.4 Professional Requirements for Admission to *l'Ordre des comptables agréés du Québec* (C.A.)

Membership in the *Ordre des comptables agréés du Québec* and the Canadian Institute of Chartered Accountants entitles Chartered Accountants to practise the profession of Chartered Accountancy.

Admission is based upon meeting the following requirements as indicated in the Chartered Accountants Act (Bill 264):

1. Possession of a university degree from a recognized institution
2. Possession of the Graduate Diploma in Public Accountancy
3. Passing of the national Uniform Final Examination given by the *Ordre* and the CICA
4. Completion of a 24-month articling period with a recognized C.A. training office
5. A working knowledge of French
6. Canadian citizenship or Permanent Resident status

Further information can be obtained from:

Ordre des comptables agréés du Québec
680 Sherbrooke Street West, 18th floor
Montreal, QC H3A 2S3
Canada
Telephone: 514-288-3256
Email: *info@ocaq.qc.ca*

14.16.5 Graduate Diploma in Public Accountancy (Chartered Accountancy) (30 credits)

This program will not be offered as of Summer 2014.

The program requires completion of nine courses (six 3-credit courses and three 4-credit courses). It is composed of the courses, which cover the theoretical and technical knowledge for entry-level Chartered Accountancy practitioners, and the Uniform Final Examination (C.A. exam).

Required Courses (30 credits)

Summer Year 1 (May - July 15)

ACCT 651D1	(1.5)	Performance Measurement and Reporting
ACCT 657D1	(2)	Governance and Control
ACCT 659D1	(1.5)	Business Analysis & Communications

Fall Year 1

ACCT 651D2	(1.5)	Performance Measurement and Reporting
ACCT 655	(3)	Assurance
ACCT 657D2	(2)	Governance and Control
ACCT 659D2	(1.5)	Business Analysis & Communications
ACCT 683	(3)	Tax Planning & Decision Making
ACCT 660D1*	(3)	Internship

OR

ACCT 661D1**	(3)	Practicum

Winter Year 1

ACCT 660D2*	(3)	Internship

OR

ACCT 661D2**	(3)	Practicum

ACCT 685	(4)	Engagement Management

Summer Year 2

ACCT 689	(4)	Business Advisory Services - Cases
ACCT 699	(0)	Uniform Final Exam Prep Seminar

* Note: Students in this course will work from October to April in an accredited chartered accounting firm with set deliverables of a journal and the authoring of a case.

** Note: Students in this course will be provided with a simulated work experience via a series of case-based studies in the field of accounting and auditing or via an independent study.

14.17 Desautels Faculty of Management Faculty

Dean

Peter A. Todd; B.Com.(McG.), Ph.D.(Br. Col.)

Associate Deans

Tamer Boyaci – *Master's Programs*

Shanling Li – *Research & International Relations*

Robert Hebdon – *Student Affairs*

Morty Yalovsky – *Academic*

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.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.(C'nell) – *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*

Professors

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.(C'dia), M.Sc.(HEC), Ph.D.(Calif.) – *Information Systems* (*James McGill Professor and IMASCO Chair in I.S.*)

P. Todd; BCom.(McG.), Ph.D.(Br. Col.) – *Information Systems*

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(Universita'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.(C'nell) – *Strategy and Organization*

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 Québ. 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., M.A., 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.(Hankuyk U., Korea), 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), Ph.D.(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*

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.Sc., 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*

Assistant Professors

M. Banerjee; B.A.(Exe.), M.Phil.(Camb.), Ph.D.(C'nell) – *Organizational Behaviour*

R. Barbulescu; B.A.(Stan.), M.Sc., Ph.D.(INSEAD) – *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. Chakrabarti; B.Sc.(Calc.), M.S.(Indian Statistical Inst.), M.Sc.(National), Ph.D.(Duke) – *Management*

A-S. Chaxel; M.Sc.(HEC Paris), M.(Paris), Ph.D.(C'nell) – *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*

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.(Carn. 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*

M. Qiu; B.A.(Huazhong), M.A.(S. Fraser), Ph.D.(Alta.) – *Marketing*

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*

H. Vough; Ph.D.(Ill.-Urbana-Champaign) – *Organizational Behaviour*

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*

S. Zhang; M.B.A.(Louvain), Ph.D.(Calif., Irvine) – *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*

Faculty Lecturers

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*

K. Moore; B.Sc.(Ambassador U.), M.B.A.(USC), Ph.D.(York) – *Marketing/Strategy and Organization*

E. Pimentel; B.Com., C.A.(McG.), M.B.A.(C'dia) – *Accounting*

J. Scott; B.A.(W. Ont.), M.B.A.(York) – *Accounting*

B. Smith; B.A., M.A.(Dublin), M.Sc.(Alta.), M.Sc.(A.)(McG.), Ph.D.(Qu.) – *Operations Management*

G. Vit; B.Com.(McG.), M.B.A.(C'dia), Ph.D.(Brad.) – *Strategy and Organization* (*Part-time*)

C. Westgate; B.A., M.B.A.(McM.) – *General-Industrial Relations*

G. Zabowski; B.Com., M.B.A.(McG.) – *Operations Management*

15 Faculty of Education

15.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

15.4 Graduate Studies at a Glance

15.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.

Faculty of Engineering	Degrees Available
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.

Faculty of Science	Degrees Available
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

15.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

15.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
		Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis)
		Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis)
		Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences

Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment

Master of Science (M.Sc.)		
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

15.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

15.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.		
The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music

Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education

Doctor of Philosophy (Ph.D.)		
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine

***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Urban Planning	N/A	Faculty of Engineering

15.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

15.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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/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 studies must be approved by GPS before registration. Double counting is not permitted.

15.6 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 permits. 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.

15.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

15.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

15.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

15.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

15.6.4 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* 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*.

15.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*

Competency in English		
86 overall (no less than 20 in each of the four component scores) N.B. an institutional version of the TOEFL is not acceptable.	550	* The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

15.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

15.6.7 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.

15.6.8 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.

15.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

15.6.10 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.

Revised – Council of February 9, 2004.

15.6.11 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.

15.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure

under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

15.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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

15.10 Information on Research Policies and Guidelines, Patents, Postdocs, Associates, Trainees

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

15.11.1 Educational and Counselling Psychology

15.11.1.1 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: *ecpinfo.education@mcgill.ca*
Website: *www.mcgill.ca/edu-ecp*

15.11.1.2 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 15.11.1.2: Graduate Degrees in Counselling Psychology*
- *section 15.11.1.2: Graduate Degrees in School/Applied Psychology*
- *section 15.11.1.2: 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 (*www.mcgill.ca/study*). 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 15.11.1.5: 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*.

section 15.11.1.6: 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** fulfil 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 15.11.1.7: 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.

section 15.11.1.7: Doctor of Philosophy (Ph.D.); 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 15.11.1.8: 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 15.11.1.9: 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 automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

For further information, consult the website at *www.mcgill.ca/edu-ecp/programs/schoolpsych*.

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:

Master of Education (M.Ed.); Educational Psychology (Non-Thesis) (48 credits)

a. **Family Life Education:** Admission to this concentration is currently suspended.

See *section 15.11.1.10: 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 15.11.1.11: 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 15.11.1.12: 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 15.11.1.13: 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 15.11.1.14: 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 15.11.1.15: 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.

For further information, consult the website at *www.mcgill.ca/edu-ecp/programs/mededpsych*.

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.

The program offers three concentrations and one major:

1. **The Health Professions Education concentration** (*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*.

See *section 15.11.1.16: 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*) 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

Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits) (*Note that the School/Applied Child Psychology Major is 78 credits.*)

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 15.11.1.17: Master of Arts (M.A.); Educational Psychology (Thesis) — Human Development (45 credits)*.

3. **The Learning Sciences concentration** (*www.mcgill.ca/edu-ecp/programs/learningsci*) 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 15.11.1.18: 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*) 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 15.11.1.19: 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 will not be offered in 2013–2014.

Doctor of Philosophy (Ph.D.); Educational Psychology

The aim of the Ph.D. in Educational Psychology emphasizes the development of research skills and supports both basic and applied research pertaining to all domains of educational psychology. It aims to develop graduates who can demonstrate:

1. broad scholarship in planning and implementing basic and applied research on problems of cognition, teaching, learning, and human development;
2. mastery of current theoretical issues in educational psychology and their historical development; and
3. a detailed knowledge of their selected concentration.

The program offers two concentrations:

1. **Human Development concentration:** (*www.mcgill.ca/edu-ecp/programs/humandev*) The Human Development concentration builds upon the M.A. program and is intended to prepare students to work in school, institutional, and university settings. The degree prepares candidates to support the educational and psychological well-being of individuals, to use research to critically inform practice, and to be able to conceptualize and conduct applied and theoretical research related to different trajectories of human development and varied educational settings. The program follows a mentorship model that encourages students' active participation in research and prepares them for academia and leadership roles in the field.

   The Human Development program is unique in exploring development including cognitive, language, social, personality, and gender development issues in children and adolescents from the diverse perspectives of our multidisciplinary faculty. These perspectives are then employed to better understand issues related to disabilities and individuals' diverse needs in educational and community settings.

   See *section 15.11.1.20: Doctor of Philosophy (Ph.D.); Educational Psychology — Human Development*.

2. **Learning Sciences concentration:** (*www.mcgill.ca/edu-ecp/programs/learningsci*) The Learning Sciences concentration builds upon the M.A. program and continues its aim of developing competent and inquiring professionals who have the skills to understand and improve learning and teaching by way of conceptualizing and conducting applied and theoretical research in different formal and informal educational settings. It is dedicated to the preparation of qualified researchers, developers, and practitioners who can advance the scientific understanding and practice of teaching and learning. The settings could be schools, colleges and universities, the workplace and professional practice, as well as virtual learning communities. Students acquire theoretical and practical knowledge through coursework, team-based research assistantships, and apprenticeships where appropriate.

   See *section 15.11.1.21: Doctor of Philosophy (Ph.D.); Educational Psychology — Learning Sciences*.

15.11.1.3 Educational and Counselling Psychology Admission Requirements and Application Procedures

15.11.1.3.1 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)

15.11.1.3.1.1 Admission Requirements

Concentration: Professional/Internship

To be eligible, applicants must hold either:

1. A baccalaureate degree in psychology, including statistics, theories of personality, history and systems of psychology, abnormal psychology, developmental psychology, and social psychology (18-credit core), with a minimum GPA of 3.2 out of 4.0 in the final two years of full-time study (minimum 48 credits).

   OR

2. A baccalaureate degree in a field other than psychology, with a minimum GPA of 3.2 out of 4.0 in the final two years of full-time study (minimum 48 credits), and sufficient academic preparation to meet the following requirements:

   - 18 credits in psychology (consisting of core courses as listed above) and up to 24 credits in related disciplines in the social sciences.

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 in our application e-package), with a minimum GPA of 3.2 out of 4.0 in their final two years of full-time study (minimum 48 credits).

15.11.1.3.1.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

15.11.1.3.1.2.1 Additional Requirements

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

- Curriculum Vitae
- Three reference letters
- Personal Statement
- 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*.

15.11.1.3.2 Ph.D. in Counselling Psychology

15.11.1.3.2.1 Admission Requirements

To be eligible applicants must hold:

A master's degree equivalent to the *section 15.11.1.6: Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Project (60 credits)* along with 42 credits of core courses in specific domains (see list in the Pre-Admission Academic Checklist in our application e-package).

15.11.1.3.2.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

15.11.1.3.2.2.1 Additional Requirements

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

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Written Work
- Ph.D. Pre-Admission Academic Checklist

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*

15.11.1.3.3 Ph.D. in School/Applied Child Psychology

15.11.1.3.3.1 Admission Requirements

To be eligible applicants must hold:

A master's degree equivalent to the *section 15.11.1.19: 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 in our application e-package), with a minimum CGPA of 3.0 out of 4.0.

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.

15.11.1.3.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

15.11.1.3.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Written Work
- Ph.D. Pre-Admission Academic Checklist
- GRE – General and Psychology subject tests
- Program Application Form
- 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*.

15.11.1.3.4 Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

15.11.1.3.4.1 Admission Requirements

An earned doctorate in Educational Psychology, another area of Psychology, or a closely related discipline (to be recognized by the Program Committee).

15.11.1.3.4.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

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/phd*.

15.11.1.3.5 M.Ed. in Educational Psychology (Non-Thesis)

This program offers six concentrations:

1. Learning Sciences
2. General Educational Psychology
3. General Educational Psychology (Project)
4. Inclusive Education
5. Inclusive Education (Project)
6. Family Life Education (*admission to the Family Life Concentration is currently suspended*)

15.11.1.3.5.1 Admission Requirements

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology.
2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies.

15.11.1.3.5.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

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*.

15.11.1.3.6 M.A. in Educational Psychology (Thesis)

This program offers three concentrations:

1. Learning Sciences
2. Health Professions Education
3. Human Development

and one Major:

1. School/Applied Child Psychology

15.11.1.36.1 Admission Requirements

Learning Sciences Concentration

1. An undergraduate degree in education, psychology, or another field relevant to the proposed studies in Educational Psychology. It is recommended that some prior study of a relevant branch of psychology form part of the undergraduate training.
2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies.

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.

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.
2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate 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 in our application e-package).
2. Minimum CGPA of 3.0 out of 4.0 or higher in undergraduate studies.

15.11.1.36.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

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*.

15.11.1.36.2.1 Additional Requirements

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

Learning Sciences Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement

Health Professions Education Concentration

- Curriculum Vitae
- Three reference letters

- Personal Statement

Human Development Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement, including the names of two potential thesis supervisors
- Program Application Form

School/Applied Child Psychology Major

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Program Application Form
- GRE – General and Psychology subject scores
- Pre-Admission Academic Checklist

15.11.1.3.7 M.A. in Educational Psychology (Non-Thesis)

Note: Admission to this program is currently suspended.

15.11.1.3.7.1 Admission Requirements

Same as M.A. (Thesis) Educational Psychology Major in School/Applied Child Psychology.

For application information please refer to instructions listed under M.A. (Thesis) Educational Psychology Major in School/Applied Child Psychology.

For further information about the application process, please consult our Departmental website: *www.mcgill.ca/edu-ecp/programs/schoolpsych/ma*.

15.11.1.3.8 Ph.D. in Educational Psychology

15.11.1.3.8.1 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. **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.

15.11.1.3.8.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

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*.

15.11.1.3.8.2.1 Additional Requirements

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

Human Development Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Letter from proposed supervisor indicating their agreement to act as the Thesis Supervisor
- Program Application Form

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

15.11.1.3.9 Application Deadlines

Counselling Psychology (M.A. or Ph.D.)		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Dec. 15	Fall: Dec. 15	Fall: Dec. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Educational Psychology and School/Applied Child Psychology programs (M.A., M.Ed., or Ph.D.)		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

15.11.1.4 Educational and Counselling Psychology Faculty

Chair

Robert 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)

Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)

Janet G. Donald; B.A., M.A.(W. Ont.), Ph.D.(Tor.)

Florent R. Dumont; A.B.(Col.), M.S.(S. Conn. St.), Ed.D.(Mass.)

Carl H. Frederiksen; B.A.(Harv.), M.A., Ph.D.(Ill.)

Lynn McAlpine; B.A.(McG.), M.A.(C'dia), Ph.D.(Tor.)

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

Roger Azevedo; B.A., M.A.(C'dia), Ph.D.(McG.) (*Canada Research Chair, Tier 1*)

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.)

Professors

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 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*)

Marilyn Fitzpatrick; B.A.(Tor.), M.Ed., Ph.D.(McG.)

Michael L. Hoover; B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)

Krista Muis; B.A.(Wat.), M.A.(Vic., BC), Ph.D.(S. Fraser)

Robert Savage; B.A.(Oxf.), M.Sc.(Camb.), M.Sc., Ph.D.(Lond.) (*William Dawson Scholar*)

Steven R. Shaw; B.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*)

Vera Romano; B.A., Dip. H.R. & F.L.E., M.Ed., Ph.D.(McG.) (*McGill Counselling Services*)

Brett D. Thombs; B.A.(N'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, Katherine Moxness, Judith Norton, Erica Shoshana Ross, Anastassios Stalikas, Jessica Toste, Helen-Maria Vasiliadis, Harold Wynne

Research Associates, Contract Academic Staff (CAS)

Rina Gupta; B.A., M.A., Ph.D.(McG.)

Jasvinder Magon; B.Sc.(C'dia), Dip.Ed., Dip.Psych/Gifted(McG.), M.Sc., D.Phil.(Oxf.)

Research Associates, Contract Academic Staff (CAS)

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 Assistants, Contract Academic Staff (CAS)

Nootan Kumar; B.Eng.(McG.), Cert., M.A.(C'dia), M.A.(Ott.)

Marianne LeBreton; B.A.(Ott.), M.A.(UQAM)

Adriana R. Pace; B.A.(C'dia), M.Ed.(McG.)

15.11.1.5 Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Professional/Internship (60 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Internship (24 credits)

EDPC 677	(3)	Internship Research Seminar: Quantitative Studies
EDPC 678	(3)	Internship Research Seminar: Qualitative Studies
EDPC 679D1	(3)	Internship: General 1
EDPC 679D2	(3)	Internship: General 1
EDPC 683	(3)	Practicum in Psychological Testing: Personality Assessment
EDPC 684	(3)	Practicum in Psychological Testing: Cognitive Assessment
EDPC 685D1	(3)	Internship: Vocational and Rehabilitation Counselling
EDPC 685D2	(3)	Internship: Vocational and Rehabilitation Counselling

Required Courses (33 credits)

EDPC 606	(3)	Theories of Intervention 1
EDPC 607	(3)	Theories of Counselling 2
EDPC 608	(3)	Group Counselling: Theory
EDPC 609	(3)	Psychological Testing 1
EDPC 615	(3)	Assessment and Diagnosis 1
EDPC 618	(3)	Professional Ethics and the Law
EDPC 624	(3)	Group Counselling: Practice
EDPC 662	(3)	Career Psychology
EDPC 665D1	(3)	Practicum
EDPC 665D2	(3)	Practicum
EDPE 622	(3)	Multiculturalism and Gender

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.

EDPC 616	(3)	Individual Reading Course
EDPC 670	(3)	Current Trends in Counselling

15.11.1.6 Master of Arts (M.A.); Counselling Psychology (Non-Thesis) — Project (60 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (57 credits)

EDPC 606	(3)	Theories of Intervention 1
EDPC 609	(3)	Psychological Testing 1
EDPC 615	(3)	Assessment and Diagnosis 1
EDPC 619	(3)	Research Project 1
EDPC 620	(3)	Research Project 2
EDPC 621	(3)	Research Project 3
EDPC 625	(6)	Clinic Practicum 1
EDPC 626	(6)	Clinic Practicum 2
EDPC 628	(3)	Research Project 4
EDPC 629	(3)	Research Project 5
EDPC 630	(3)	Research Project 6
EDPC 662	(3)	Career Psychology
EDPC 683	(3)	Practicum in Psychological Testing: Personality Assessment
EDPC 684	(3)	Practicum in Psychological Testing: Cognitive Assessment
EDPE 622	(3)	Multiculturalism and Gender
EDPE 627	(3)	Professional Practice of Psychology
EDPE 676	(3)	Intermediate Statistics

Complementary Courses (3 credits)

3 credits from the following:

EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 687	(3)	Qualitative Methods in Educational Psychology

15.11.1.7 Doctor of Philosophy (Ph.D.); Counselling Psychology

For more information, see http://www.mcgill.ca/study/2013-2014/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)

EDPC 701	(0)	Comprehensive Examination
EDPC 702	(3)	Assessment & Diagnosis 2
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

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.

15.11.1.8 Doctor of Philosophy (Ph.D.); School/Applied Child Psychology

For more information, see http://www.mcgill.ca/study/2013-2014/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 (18 credits)

EDPC 714	(3)	Theory / Models: Family Therapy
EDPE 625	(3)	Practicum 1: School Psychology
EDPE 626	(3)	Practicum 2: School Psychology
EDPE 708	(0)	Comprehensive Examination
EDPE 710	(3)	Consultation in School Psychology
EDPE 712	(3)	Neurological Bases of Behaviour
EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (12 credits)

Students must select two of these three practicum settings:

EDPE 721	(6)	School Psychology: Elementary
EDPE 722	(6)	School Psychology: Secondary
EDPE 723	(6)	School Psychology: Community

Internship (24 credits)

EDPE 725	(12)	Internship 1 - School Psychology
EDPE 726	(12)	Internship 2 - School Psychology

15.11.1.9 Post-Ph.D. Graduate Diploma in School/Applied Child Psychology

For more information, see http://www.mcgill.ca/study/2013-2014/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.

EDPC 609	(3)	Psychological Testing 1

EDPC 610	(3)	Psychological Testing 2
EDPC 618	(3)	Professional Ethics and the Law
EDPC 682D1	(3)	Practicum: Psychological Testing
EDPC 682D2	(3)	Practicum: Psychological Testing
EDPC 714	(3)	Theory / Models: Family Therapy
EDPE 619	(3)	Child and Adolescent Therapy
EDPE 625	(3)	Practicum 1: School Psychology
EDPE 626	(3)	Practicum 2: School Psychology
EDPE 710	(3)	Consultation in School Psychology

Complementary Courses - Field Placements

Two days per week, one semester each; students select two of these three field experiences; placement in a school covering all grades may be applied to either EDPE 721 or EDPE 722:

EDPE 721	(6)	School Psychology: Elementary
EDPE 722	(6)	School Psychology: Secondary
EDPE 723	(6)	School Psychology: Community

Internship

One year full time or two years half-time

EDPE 725	(12)	Internship 1 - School Psychology
EDPE 726	(12)	Internship 2 - School Psychology

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this Post-doctoral Graduate Diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the American Psychological Association (APA). Graduates of a respecialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the Post-doctoral Graduate Diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

15.11.1.10 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/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (9 credits)

EDPE 575	(3)	Educational Measurement
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction

Complementary Courses (27 credits)

27 credits from the following:

EDPC 501	(3)	Helping Relationships

EDPC 502	(3)	Group Processes and Individuals
EDPC 503	(3)	Human Sexuality: Professionals
EDPC 504	(3)	Practicum: Interviewing Skills
EDPC 505	(3)	Crisis Intervention Processes
EDPC 507	(3)	Practicum: Group Leadership Skills
EDPC 508	(3)	Seminar in Special Topics
EDPC 509	(3)	Individual Reading Course
EDPC 510	(3)	Family Life Education and Marriage
EDPC 540	(3)	Foundation of Family Life Education
EDPE 560	(3)	Human Development
EDPE 564	(3)	Family Communication
EDPE 595	(3)	Seminar in Special Topics
EDPE 605	(3)	Research Methods
EDPE 697	(6)	Special Activity 1
EDPE 698	(6)	Special Activity 2

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.

15.11.1.11 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/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (24 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Introduction to Learning Sciences
EDPE 575	(3)	Educational Measurement
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 670	(3)	Educational Assessment and Evaluation
EDPI 642	(3)	Inclusion: Past, Present & Future

Complementary Courses (12 credits)

EDPC 501	(3)	Helping Relationships
EDPC 504	(3)	Practicum: Interviewing Skills
EDPC 505	(3)	Crisis Intervention Processes
EDPC 542	(3)	Counselling Role of the Teacher
EDPE 515	(3)	Gender Identity Development
EDPE 636	(3)	Motivation and Instruction

EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity
EDPH 689	(3)	Teaching and Learning in Higher Education
EDPI 526	(3)	Talented and Gifted Students
EDPI 527	(3)	Creativity and its Cultivation
EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2
EDPI 543	(3)	Family, School and Community
EDPI 645	(3)	Assessment For Effective Intervention
EDPI 654	(3)	Instruction/Curriculum Adaptation
EDPI 656D1	(3)	Clinic Practicum in Special Education
EDPI 656D2	(3)	Clinic Practicum in Special Education
EDPI 665	(3)	Teaching of Reading
EDPI 667	(3)	Promoting Social and Emotional Well-Being

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.

15.11.1.12 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/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (36 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Introduction to Learning Sciences
EDPE 575	(3)	Educational Measurement
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 670	(3)	Educational Assessment and Evaluation
EDPI 642	(3)	Inclusion: Past, Present & Future
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 (12 credits)

EDPC 501	(3)	Helping Relationships
EDPC 504	(3)	Practicum: Interviewing Skills
EDPC 505	(3)	Crisis Intervention Processes
EDPC 542	(3)	Counselling Role of the Teacher
EDPE 515	(3)	Gender Identity Development
EDPE 636	(3)	Motivation and Instruction
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity
EDPH 689	(3)	Teaching and Learning in Higher Education
EDPI 526	(3)	Talented and Gifted Students
EDPI 527	(3)	Creativity and its Cultivation
EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2
EDPI 543	(3)	Family, School and Community
EDPI 645	(3)	Assessment For Effective Intervention
EDPI 654	(3)	Instruction/Curriculum Adaptation
EDPI 656D1	(3)	Clinic Practicum in Special Education
EDPI 656D2	(3)	Clinic Practicum in Special Education
EDPI 665	(3)	Teaching of Reading
EDPI 667	(3)	Promoting Social and Emotional Well-Being

15.11.1.13 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.

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (30 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

Complementary Courses (18 credits)

18 credits from the following:

EDPC 501	(3)	Helping Relationships
EDPC 504	(3)	Practicum: Interviewing Skills
EDPE 515	(3)	Gender Identity Development
EDPE 595	(3)	Seminar in Special Topics
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 676	(3)	Intermediate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity
EDPI 526	(3)	Talented and Gifted Students
EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2
EDPI 656D1	(3)	Clinic Practicum in Special Education
EDPI 656D2	(3)	Clinic Practicum in Special Education

15.11.1.14 Master of Education (M.Ed.); Educational Psychology (Non-Thesis) — Inclusive Education: Project (48 credits)

The aim of the M.Ed. in Educational Psychology (Non-Thesis) - Inclusive Education is to educate students on the major theories and practices of inclusive education. The program's focus is on diversity in development behavior and attainment, and eco-systemic and cultural models of teaching, learning, and assessment. Similar approaches are taken to understand disability. Graduates will be able to implement effective teaching programs for students across all spectrums of development. Students will develop a strong foundation in the core content and theories of development, disability, inclusion, and methods. The role of schools and communities is also examined. Students will be trained in application and practice through behaviour, literacy assessment and intervention, differentiated teaching planning objectives, and the completion of a Research Project.

For more information, see http://www.mcgill.ca/study/2013-2014/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

15.11.1.15 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/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (24 credits)

EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Introduction to Learning Sciences
EDPE 575	(3)	Educational Measurement
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 636	(3)	Motivation and Instruction
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 670	(3)	Educational Assessment and Evaluation

Complementary Courses (12 credits)

12 credits from the following:

EDPE 502	(3)	Theories of Human Development
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPE 668	(3)	Advanced Seminar in Learning Sciences
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity
EDPH 689	(3)	Teaching and Learning in Higher Education
EDPI 526	(3)	Talented and Gifted Students
EDPI 527	(3)	Creativity and its Cultivation

EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2
EDPI 654	(3)	Instruction/Curriculum Adaptation

Elective Courses (12 credits)

500-, 600-, or 700-level courses to be taken from courses offered by the Department or with approval of the Program Director, from other departments.

15.11.1.16 Master of Arts (M.A.); Educational Psychology (Thesis) — Health Professions Education (48 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Prerequisite Course (or equivalent) (3 credits)

EDPE 575	(3)	Educational Measurement

Required Courses (12 credits)

EDPE 605	(3)	Research Methods
EDPE 637	(3)	Issues in Health Professions Education
EDPE 639*	(3)	Practicum in Health Professions Education
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPH 689*	(3)	Teaching and Learning in Higher Education

Complementary Courses (12 credits)

3 credits from the following:

EDPE 639	(3)	Practicum in Health Professions Education
EDPH 689	(3)	Teaching and Learning in Higher Education

9 credits from the following:

EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Introduction to Learning Sciences
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science

EDPE 668	(3)	Advanced Seminar in Learning Sciences
EDPE 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.

15.11.1.17 Master of Arts (M.A.); Educational Psychology (Thesis) — Human Development (45 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Required Courses (18 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 605	(3)	Research Methods
EDPE 672	(3)	Human Development Seminar 1
EDPE 673	(3)	Human Development Seminar 2
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

Complementary Courses

3 credits from the following:

EDPE 515	(3)	Gender Identity Development
EDPE 616	(3)	Cognitive Development
EDPE 620	(3)	Developmental Psychopathology
EDPE 623	(3)	Social-Emotional Development
EDPI 642	(3)	Inclusion: Past, Present & Future
EDPI 665	(3)	Teaching of Reading

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

15.11.1.18 Master of Arts (M.A.); Educational Psychology (Thesis) — Learning Sciences (45 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Required Courses (12 credits)

EDPE 605	(3)	Research Methods
EDPE 666	(3)	Foundations of Learning Science
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

Complementary Courses (9 credits)

EDPE 555	(3)	Introduction to Learning Sciences
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
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.

15.11.1.19 Master of Arts (M.A.); Educational Psychology (Thesis) — School/Applied Child Psychology (78 credits)

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Prerequisite Course (or equivalent) (3 credits)

EDPE 575	(3)	Educational Measurement

Required Courses (51 credits)

EDPC 609	(3)	Psychological Testing 1
EDPC 610	(3)	Psychological Testing 2
EDPC 682D1	(3)	Practicum: Psychological Testing
EDPC 682D2	(3)	Practicum: Psychological Testing
EDPE 600	(3)	Current Topics: Educational Psychology
EDPE 605	(3)	Research Methods
EDPE 609	(3)	Selected Topics in Educational Psychology
EDPE 611	(3)	School Psychology Seminar
EDPE 616	(3)	Cognitive Development
EDPE 619	(3)	Child and Adolescent Therapy

EDPE 620	(3)	Developmental Psychopathology
EDPE 622	(3)	Multiculturalism and Gender
EDPE 623	(3)	Social-Emotional Development
EDPE 627	(3)	Professional Practice of Psychology
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPI 654	(3)	Instruction/Curriculum Adaptation

Complementary Courses (3 credits)

3 credits from:

EDPE 684	(3)	Applied Multivariate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology

15.11.1.20 Doctor of Philosophy (Ph.D.); Educational Psychology — Human Development

For more information, see http://www.mcgill.ca/study/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (27 credits)

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

EDPE 502	(3)	Theories of Human Development
EDPE 605	(3)	Research Methods
EDPE 672	(3)	Human Development Seminar 1
EDPE 673	(3)	Human Development Seminar 2
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 683	(3)	Human Development Seminar 3
EDPE 686	(3)	Human Development Seminar 4
EDPE 708	(0)	Comprehensive Examination
EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (15 credits)

12 credits from:

EDPE 515	(3)	Gender Identity Development
EDPE 616	(3)	Cognitive Development
EDPE 620	(3)	Developmental Psychopathology
EDPE 623	(3)	Social-Emotional Development
EDPI 642	(3)	Inclusion: Past, Present & Future
EDPI 665	(3)	Teaching of Reading
EDPI 756	(3)	Internship/Special Needs Education

3 credits from from the following:

EDPE 684	(3)	Applied Multivariate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology

15.11.1.21 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/2013-2014/faculties/education/graduate/gps_edu_educational_and_counselling_psychology.

Required Courses (27 credits)

EDPE 605	(3)	Research Methods
EDPE 666	(3)	Foundations of Learning Science
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 704	(3)	Advanced Research Seminar 1
EDPE 705	(3)	Advanced Research Seminar 2
EDPE 706	(3)	Advanced Research Seminar 3
EDPE 707	(3)	Advanced Research Seminar 4
EDPE 708	(0)	Comprehensive Examination
EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (6 credits)

3 credits from the following:

EDPE 636	(3)	Motivation and Instruction
EDPE 637	(3)	Issues in Health Professions Education
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
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

15.11.2 Information Studies

15.11.2.1 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*

15.11.2.2 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, individuals who can make a difference in the management and design of information resources, services, and systems to ensure adequate access to information and knowledge for all. As the pioneer school in Canada, SIS has been offering programs at McGill since 1897, and our Master of Library and Information Studies degree has been continuously accredited by the American Library Association since 1929. The School offers the Master of Library and Information Studies (M.L.I.S.), post-M.L.I.S. certificate and diploma programs, and a Ph.D. program in Information Studies. Our programs are articulated around three specializations: Archival Studies, Knowledge Management, and Librarianship.

Information Studies is the name assigned to a wide-ranging discipline, and SIS professors are engaged in four major research areas: information-seeking behaviour; human-computer interaction; information resources in context; and knowledge management and representation. Located within the Faculty of Education, SIS offers our students the advantages of a small, autonomous unit, yet with all the facilities and administrative support of a large and vibrant university faculty, located in the heart of bilingual and multicultural Montreal.

For complete information on the School of Information Studies, please see our website at *www.mcgill.ca/sis*.

For complete information about any of our programs, please see the *Programs & Courses* section of our website at *www.mcgill.ca/sis/programs*.

section 15.11.2.5: Master of Library and Information Studies (M.L.I.S.); Information Studies (Non-Thesis) (48 credits)

The Master of Library and 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 three areas of specialization: Archival Studies, Knowledge Management, and Librarianship. The program provides the intellectual foundation for careers in these three areas; 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.

section 15.11.2.6: 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 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 one of four research areas within information studies: information-seeking behaviour, human-computer interaction, information resources in context, and knowledge management and representation. 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 15.11.2.7: 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 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 15.11.2.8: Graduate Diploma in Library and Information Studies (30 credits)

The Graduate Diploma 30-credit program provides professional librarians and information specialists currently holding an 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.

15.11.2.3 Information Studies Admission Requirements and Application Procedures

15.11.2.3.1 Admission Requirements

Master of Library and Information Studies (M.L.I.S.)

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.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.
3. Competency in the use of computers is expected. Applicants should have a thorough knowledge of the Windows operating system, particularly file management 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.

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 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.

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.

15.11.2.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

15.11.2.3.2.1 Additional Requirements

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

- Employer Reference Letters – if degree was awarded more than five years ago, two employer letters of recommendation instead of academic letters
- Personal Statement – All programs except Ph.D.
- Curriculum Vitae
- Research Proposal – Ph.D. only

Applicants are encouraged to review the Staff Directory 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.

15.11.2.3.3 Application Deadlines

M.L.I.S., Graduate Certificate, and Graduate Diploma		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Mar. 15	Fall: Feb. 15	Fall: Contact Student Affairs Coordinator
Winter: N/A	Winter: N/A	Winter: Contact Student Affairs Coordinator

M.L.I.S., Graduate Certificate, and Graduate Diploma		
Summer: N/A	Summer: N/A	Summer: Contact Student Affairs Coordinator

Ph.D.		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Jan. 15	Fall: Jan. 15	Fall: Contact Student Affairs Coordinator
Winter: N/A	Winter: N/A	Winter: Contact Student Affairs Coordinator
Summer: N/A	Summer: N/A	Summer: Contact Student Affairs Coordinator

15.11.2.4 Information Studies Faculty

Director

France Bouthillier

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)

Catherine Guastavino; B.Sc.(McG.), M.Sc.(Aix-Marseille), Ph.D.(Paris)

Eun Park; B.A.(Pusan), M.L.I.S.(Ill.), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

Assistant Professors

Charles-Antoine Julien; B.Eng., M.Sc.(Montr.), Ph.D.(McG.)

Elaine Ménard; B.A., M.A., M.S.I., Ph.D.(Montr.)

Karyn Moffatt; B.A.Sc., M.Sc., Ph.D.(Br. Col.)

Adjunct Professor

Joy Bennett; B.A., M.A.(C'dia), M.L.I.S.(McG.), Ph.D.(C'dia)

Associate Members

Gordon Burr; B.A., M.L.I.S.(McG.), 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

Edward Bilodeau; B.Sc, 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.)

Rhiannon Gainor; B.A.(Brigham Young), M.L.I.S/M.A.(Alta.)

David Weigl; B.Sc., M.Sc.(Edin.)

15.11.2.5 Master of Library and Information Studies (M.L.I.S.); Information Studies (Non-Thesis) (48 credits)

This program will be changed for the 2014-2015 academic year. Please refer to the School of Information Studies website at www.mcgill.ca/programs/mist.

The M.L.I.S offers three streams of study: Archival Studies, Knowledge Management, and Librarianship.

In consultation with the coordinator of each stream and the Student Affairs Coordinator, before registering for courses, students will select a stream based on their interests.

During their first two terms, students should aim to complete the required core and complementary courses needed for their selected stream.

Required Courses (12 credits)

GLIS 601	(3)	Information and Society
GLIS 611	(3)	Research Principles and Analysis
GLIS 617	(3)	Information System Design
GLIS 620	(3)	Information Agency Management

Complementary Courses (36 credits)

24-36 credits from one of the following streams: Archival Studies, Knowledge Management, or Librarianship.

Archival Studies Stream

12 credits, the following four required courses:

GLIS 641	(3)	Archival Arrangement & Description
GLIS 642	(3)	Preservation Management
GLIS 645	(3)	Archival Principles & Practice
GLIS 660	(3)	Records Management

12-24 credits chosen from the following complementary courses:

GLIS 609	(3)	Metadata & Access
GLIS 613	(3)	Library and Archival History
GLIS 634	(3)	Web System Design and Management
GLIS 643	(3)	Electronic Records Systems
GLIS 646	(12)	Research Project
GLIS 647	(6)	Independent Study
GLIS 657	(3)	Database Design & Development
GLIS 689	(3)	Selected Topics
GLIS 699	(3)	Practicum

0-12 credits chosen from the following complementary courses:

GLIS 607	(3)	Organization of Information
GLIS 616	(3)	Information Retrieval
GLIS 619	(3)	Information Services & Users
GLIS 631	(3)	Systems Thinking
GLIS 632	(3)	Library Systems
GLIS 633	(3)	Multimedia Systems
GLIS 638	(3)	Business Information
GLIS 639	(3)	Introduction to Museology
GLIS 655	(3)	Language and Information
GLIS 661	(3)	Knowledge Management

GLIS 665	(3)	Competitive Intelligence

Knowledge Management Stream

12 credits, the following four required courses:

GLIS 661	(3)	Knowledge Management
GLIS 662	(3)	Intellectual Capital
GLIS 663	(3)	Knowledge Taxonomies
GLIS 664	(3)	Communities of Practice

12-24 credits chosen from the following complementary courses:

GLIS 616	(3)	Information Retrieval
GLIS 633	(3)	Multimedia Systems
GLIS 634	(3)	Web System Design and Management
GLIS 638	(3)	Business Information
GLIS 643	(3)	Electronic Records Systems
GLIS 646	(12)	Research Project
GLIS 647	(6)	Independent Study
GLIS 657	(3)	Database Design & Development
GLIS 665	(3)	Competitive Intelligence
GLIS 689	(3)	Selected Topics
GLIS 699	(3)	Practicum

0-12 credits chosen from the following complementary courses:

GLIS 607	(3)	Organization of Information
GLIS 619	(3)	Information Services & Users
GLIS 624	(3)	Marketing Information Services
GLIS 631	(3)	Systems Thinking
GLIS 639	(3)	Introduction to Museology
GLIS 645	(3)	Archival Principles & Practice
GLIS 655	(3)	Language and Information
GLIS 679	(3)	Information Literacy

Librarianship Stream

12 credits, the following four required courses:

GLIS 607	(3)	Organization of Information
GLIS 615	(3)	Bibliographic and Factual Sources
GLIS 618	(3)	Collection Development
GLIS 619	(3)	Information Services & Users

12-24 credits chosen from the following complementary courses:

GLIS 608	(3)	Classification and Cataloguing
GLIS 612	(3)	History of Books and Printing
GLIS 613	(3)	Library and Archival History
GLIS 614	(3)	Public Libraries
GLIS 632	(3)	Library Systems
GLIS 636	(3)	Government Information
GLIS 637	(3)	Scientific & Technical Information
GLIS 638	(3)	Business Information
GLIS 644	(3)	Descriptive Bibliography
GLIS 646	(12)	Research Project
GLIS 647	(6)	Independent Study
GLIS 651	(3)	Humanities and Social Science Information
GLIS 656	(3)	Abstracting and Indexing
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 699	(3)	Practicum

0-12 credits chosen from the following complementary courses:

GLIS 609	(3)	Metadata & Access
GLIS 616	(3)	Information Retrieval
GLIS 624	(3)	Marketing Information Services
GLIS 631	(3)	Systems Thinking
GLIS 633	(3)	Multimedia Systems
GLIS 634	(3)	Web System Design and Management
GLIS 639	(3)	Introduction to Museology
GLIS 643	(3)	Electronic Records Systems
GLIS 645	(3)	Archival Principles & Practice
GLIS 655	(3)	Language and Information
GLIS 657	(3)	Database Design & Development
GLIS 660	(3)	Records Management
GLIS 661	(3)	Knowledge Management
GLIS 665	(3)	Competitive Intelligence

Elective Courses (12 credits)

0-12 credits approved by the student's adviser, selected from the complementary courses of streams not chosen as the student's primary focus or from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

15.11.2.6 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
GLIS 703	(3)	Research Paradigms in Information Studies
GLIS 704	(3)	Research Design in Information Studies
GLIS 705	(3)	Readings in Information Studies

Students may also be required to take additional courses to prepare them for their research.

15.11.2.7 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:

GLIS 646	(12)	Research Project
GLIS 647	(6)	Independent Study
GLIS 689	(3)	Selected Topics
GLIS 695	(6)	Research Paper 1
GLIS 696D1	(6)	Research Paper 2
GLIS 696D2	(6)	Research Paper 2

Note: students who wish to register for:

GLIS 694	(3)	Certificate Project

must first have their research proposal approved by the Committee on Student Standing and Academic Affairs.

0-6 credits of non-GLIS courses with a maximum of 3 credits from outside McGill. All such courses must be at a graduate level and receive prior approval of the student's adviser(s) and the School's Director.

15.11.2.8 Graduate Diploma in Library and Information Studies (30 credits)

Research Paper

(6-18 credits)

GLIS 695	(6)	Research Paper 1
GLIS 696D1	(6)	Research Paper 2
GLIS 696D2	(6)	Research Paper 2

Complementary Courses

(9-24 credits)

Three to eight GLIS courses chosen in consultation with the student's adviser with the exception of the following:

GLIS 646	(12)	Research Project
GLIS 647	(6)	Independent Study
GLIS 689	(3)	Selected Topics
GLIS 694	(3)	Certificate Project

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.

15.11.3 Integrated Studies in Education

15.11.3.1 Location

Department of Integrated Studies in Education
Education Building, Room 244
3700 McTavish Street
Montreal, QC H3A 1Y2
Canada

Website: *www.mcgill.ca/dise*

Graduate Programs (Graduate Certificate, M.A., MATL, and Ph.D.):
Education Building, Room 244
Telephone: 514-398-1591 (Ph.D. / M.A.) / 514-398-7149 (MATL)
Fax: 514-398-4529

The administrative office is open Monday to Friday from 9:30 a.m. to 4:00 p.m.

15.11.3.2 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:

Three 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

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 2013-2014.

The Department also offers a Ph.D. in Educational Studies. The four research areas currently available are:

- Curriculum and Literacy Studies
- Cultural and International Studies in Education
- Studies in Educational Leadership
- Studies in Second Language Education

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 15.11.3.5: 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 15.11.3.6: 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 15.11.3.8: 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 15.11.3.9: 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 15.11.3.10: 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 15.11.3.11: 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 15.11.3.9: 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 15.11.3.13: 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 15.11.3.14: 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 15.11.3.15: 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 15.11.3.16: 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 15.11.3.17: 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 15.11.3.18: 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 15.11.3.21: 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 2013-2014.

section 15.11.3.22: 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 15.11.3.23: 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 15.11.3.24: 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 15.11.3.25: 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 15.11.3.26: 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 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 15.11.3.28: 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 15.11.3.27: 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.

Graduate Certificates

section 15.11.3.30: 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 15.11.3.31: 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 15.11.3.32: 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.

15.11.3.3 Integrated Studies in Education Admission Requirements and Application Procedures

15.11.3.3.1 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; 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 educational 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*. Applicants to the MATL TESL option are required to pass a written and oral English language proficiency test set by the Department.

15.11.3.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

15.11.3.3.2.1 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.

15.11.3.3.3 Application Deadlines

Integrated Studies in Education		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Integrated Studies in Education (MATL)		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: N/A	Fall: N/A	Fall: N/A
Winter: N/A	Winter: N/A	Winter: N/A
Summer: Dec. 15	Summer: Dec. 15	Summer: N/A

15.11.3.4 Integrated Studies in Education Faculty

Chair

Dr. Ralf St. Clair

Director of M.A. and Ph.D. Programs

Dr. Lise Winer – *M.A. & Ph.D.*

Dr. Caroline Riches – *MATL program*

Director 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.)

Thomas A. Francoeur; B.A., Lic.Ped., D.Ed.(Montr.), M.A.(Ott.), Dip.Pst.(Brussels)

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russell Sage), Ed.D.(Col.) (*William C. Macdonald Emeritus Professor of Education*)

John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)

Wayne C. Hall; B.A., M.A.(Bishop's) (*William C. Macdonald Emeritus Professor of Education*)

Norman Henchey; B.A., B.Ped., Lic.Ped.(Montr.), Ph.D.(McG.)

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.

R. Lynn Studham; N.D.D.(Sunder), A.R.A.(Royal Acad., Copen.), M.A.(E. Carolina), C.S.G.A., S.C.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.)

Mary H. Maguire; B.A., B.Ed., M.A.(Montr.), M.Ed., Cert. Reading(McG.), Ph.D.(Ariz.)

Professors

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)

Fiona Benson; B.A.(Ott.), M. Ed., Ph.D.(McG.)

Jon G. Bradley; B.A., M.A.(Sir G. Wms.)

Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)

Steven Jordan; B.A.(Kent), M.Sc.(Lond.), Ph.D.(McG.)

Bronwen Low: B.A.(Qu.), M.A.(Br. Col.), Ph.D.(York)

Kevin McDonough; B.A., B.Ed., M.Ed.(Alta.), Ph.D.(Ill.)

Ronald Morris; B.Ed., M.A., Ph.D.(McG.)

Caroline Riches; B.A., M.Sc.(Alta), Ph.D.(McG.)

Mela Sarkar; B.A., 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.(lnst. Allende, Guanajuato), Ph.D.(C'dia)

Elizabeth Wood; B.F.A.(York), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.)

Assistant Professors

Anila Asghar; M.S.(Punjab), M.A.(Col.), M.Ed., Ed.D.(Harv.)

Spencer Boudreau; B.A.(Don Bosco), B.A., M.A.(Sher.), Ph.D.(C'dia)

Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)

Kara Jackson; B.A.(Bates), M.A., Ph.D.(Penn.)

Marta Kobiela; B.Sc., M.Sc.(Texas A & M), Ph.D.(Vanderbilt)

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.)

Paul Zanazanian; B.A., M.A.(McG.), Ph.D.(Montr.)

Associate Members

Richard Harris, Adrienne Hurley, Lynn McAlpine

Faculty Lecturers

Beverly Baker, Donna-Lee Smith, Lisa Trimble

Adjunct Professors

Colin Lankshear, Robert Saggers, Ruth Sandwell, Ann Smith

15.11.3.5 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.

15.11.3.6 Master of Arts (M.A.); Education and Society (Thesis) — Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

Required Courses (9 credits)

EDEM 609	(3)	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, 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.

15.11.3.7 Master of Arts (M.A.); Education and Society (Thesis) — Mathematics and Science Education (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

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

15.11.3.8 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.

15.11.3.9 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.

15.11.3.10 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

15.11.3.11 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
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education

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.

15.11.3.12 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.

15.11.3.13 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
EDEM 690	(3)	Research Methods: Philosophy and Practice

Complementary Courses (27 credits)

24 credits selected from the following courses:

EDEM 628	(3)	Education Resource Management
EDEM 630	(3)	Policy Issues: Workplace Learning
EDEM 637	(3)	Managing Educational Change
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 646	(3)	Planning and Evaluation
EDEM 664	(3)	Education and the Law
EDEM 674	(3)	Organizational Theory and Education
EDEM 675	(3)	Special Topics 1
EDEM 677	(3)	Special Topics 2
EDEM 693	(3)	School Improvement Approaches

3 credits selected from the following courses:

EDEC 602	(3)	Foundations of Curriculum
EDEC 606	(3)	Seminar in Curriculum Inquiry
EDEC 612	(3)	Media Literacy
EDEC 620	(3)	Meanings of Literacy
EDEC 635	(3)	Advanced Written Communication

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

15.11.3.14 Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project (45 credits)

Research Project (12 credits)

EDEM 625	(6)	Project 1
EDEM 627	(6)	Project 2

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
EDEM 690	(3)	Research Methods: Philosophy and Practice

Complementary Courses (15 credits)

12 credits selected from the following courses:

EDEM 628	(3)	Education Resource Management
EDEM 630	(3)	Policy Issues: Workplace Learning
EDEM 637	(3)	Managing Educational Change
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 646	(3)	Planning and Evaluation
EDEM 664	(3)	Education and the Law
EDEM 674	(3)	Organizational Theory and Education
EDEM 675	(3)	Special Topics 1
EDEM 677	(3)	Special Topics 2
EDEM 693	(3)	School Improvement Approaches

3 credits selected from the following courses:

EDEC 602	(3)	Foundations of Curriculum
EDEC 606	(3)	Seminar in Curriculum Inquiry
EDEC 612	(3)	Media Literacy
EDEC 620	(3)	Meanings of Literacy
EDEC 635	(3)	Advanced Written Communication

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

15.11.3.15 Master of Arts (M.A.); Educational Leadership (Non-Thesis) — Project — Gender and Women's Studies (45 credits)

Research Project (12 credits)

EDEM 625	(6)	Project 1
EDEM 627	(6)	Project 2

Required Courses (15 credits)

EDEM 609	(3)	Introduction to Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education
EDEM 690	(3)	Research Methods: Philosophy and Practice
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

9 credits selected from the following:

EDEM 628	(3)	Education Resource Management
EDEM 637	(3)	Managing Educational Change
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 646	(3)	Planning and Evaluation
EDEM 664	(3)	Education and the Law
EDEM 674	(3)	Organizational Theory and Education
EDEM 675	(3)	Special Topics 1
EDEM 677	(3)	Special Topics 2
EDEM 693	(3)	School Improvement Approaches

3 credits selected from the following courses:

EDEC 602	(3)	Foundations of Curriculum
EDEC 606	(3)	Seminar in Curriculum Inquiry
EDEC 612	(3)	Media Literacy
EDEC 620	(3)	Meanings of Literacy
EDEC 635	(3)	Advanced Written Communication

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.

15.11.3.16 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)

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 (9 credits)

EDEM 690	(3)	Research Methods: Philosophy and Practice
EDPE 575	(3)	Educational Measurement
EDSL 623	(3)	Second Language Learning

Complementary Courses (9 credits)

9 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

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

15.11.3.17 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).

15.11.3.18 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)

EDEM 609	(3)	Introduction to Educational Theory and Research
EDEM 690	(3)	Research Methods: Philosophy and Practice
EDPE 575	(3)	Educational Measurement
EDSL 623	(3)	Second Language Learning

Complementary Courses (15 credits)

15 credits chosen from the following courses:

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

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:

CESL 690	(3)	Writing for Graduate Students
EDEC 635	(3)	Advanced Written Communication

An undergraduate language course (e.g. Spanish, Italian, Japanese).

15.11.3.19 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.

15.11.3.19.1 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 15.11.3.19.3: 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).

15.11.3.19.2 Registration

Students:

- must be registered for Internship 1 (EDIN 601) on Minerva by the end of May of the preceding academic term (see *www.mcgill.ca/importantdates*);
- must register for Internship 2 (EDIN 602) on Minerva by the end of September of the preceding academic term (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.

15.11.3.19.3 Placement Options

Contract

MATL students who have secured an employment contract for the duration of the Internship can choose to use these hours to fulfil 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.

15.11.3.19.4 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.

15.11.3.19.5 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Internship, including pedagogical and professional behaviour, available at *www.mcgill.ca/ost*.

Students should not engage in any type of employment during Internship (with the exception of a contract used to fulfil the Internship requirements), nor register for any course that might interfere with the successful outcome of an Internship.

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/clinic/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*. 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.

15.11.3.19.6 Grading and Credit

Internships are graded according to the graduate grading scale (*section 2.9: 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.

In accordance with GPS failure policy (*section 2.14: Failure Policy*), where a student is experiencing serious pedagogical or professional difficulties in an Internship, the director of the OST will review the case and will make a grade decision:

- 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. This special permission will be granted once only in a student's program. A subsequent Failure (F, J, KF, WF) in any Internship places a student in Unsatisfactory Standing, requiring withdrawal from the Teacher Education Program.
- Grade of F without permission to repeat the Internship, placing a student in Unsatisfactory Standing and requiring withdrawal from the Teacher Education Program.

A student may appeal a failing grade or termination of an Internship by making a formal application to the Executive Director, Student Affairs.

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).
- Failing grade – At the discretion of the director of Student Teaching, the student may be (a) permitted to register for the Internship again during the next regularly scheduled term, or (b) may be 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.

15.11.3.19.7 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.

15.11.3.20 Master of Arts in Teaching and Learning – Regulations and Programs

15.11.3.20.1 Time Commitment

The M.A. in Teaching and Learning program is designed such that the program may be completed in four or seven consecutive semesters; students have up to five years to complete the program. In all cases, the program begins with mandatory courses in the Summer term. It is important to note the following:

- Internship semesters have over 12 credits of required corequisite courses.
- Internship placements are completed full-time in a secondary school. See *section 15.11.3.19: Graduate Student Teaching / M.A. in Teaching and Learning Internship*.
- Summer Institute semesters have fewer than 12 required credits of courses.

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 5.2: Student Services – Downtown Campus*) for more information. See *section 2.1: Categories of Students* for information about full-time and part-time study.

15.11.3.20.2 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 fulfil this obligation, M.A in Teaching and Learning students are required to write the English Examination for Teacher Certification (EETC) before the end of their first semester in 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.

15.11.3.20.3 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*).

15.11.3.20.4 Portfolio

All students in the M.A. Teaching and Learning program are required to prepare a professional portfolio by the time of their graduation. The portfolio is a component of the professional seminars that are integrated with each Internship. The finished professional portfolio is a requirement of the Culminating Professional Seminar course (final summer of program). Guidelines are posted on the Office of Student Teaching website (*www.mcgill.ca/ost*).

15.11.3.21 Master of Arts (M.A.) in Teaching and Learning — English or French Second Language (60 credits)

The French Second Language program is not being offered in 2013-2014.

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)

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
EDSL 505	(3)	Second Language Acquisition Applied to Classroom Contexts
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
EDTL 609	(3)	Diverse Learners
EDTL 635	(3)	Applied Methods in Second Language Education

EDTL 636	(3)	Adv. Applied Methods in Second Language Education

Complementary Courses (6 credits)

3 credits selected from:

EDEC 612	(3)	Media Literacy
EDEC 620	(3)	Meanings of Literacy

3 credits selected from (in accordance with teaching English or French as a second language):

EDSL 512	(3)	Grammar in Teaching English as a Second Language
EDSL 515	(3)	Étude de la langue française pour enseignants

15.11.3.22 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 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 (51 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
EDTL 609	(3)	Diverse Learners
EDTL 629	(3)	Applied Methods in Teaching Secondary Eng. Language Arts
EDTL 630	(3)	Advanced Applied Methods in Teaching Sec English Lang Arts

Complementary Courses (9 credits)

3 credits selected 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 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.

15.11.3.23 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)

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 601	(3)	Cross-curricular Teaching Methods
EDTL 604	(3)	Techniques for Assessment
EDTL 609	(3)	Diverse Learners
EDTL 627	(3)	Applied Methods in Teaching Mathematics in Secondary School
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.

15.11.3.24 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
EDTL 609	(3)	Diverse Learners
EDTL 633	(3)	Applied Methods in Teaching Social Science in Sec. School

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.

15.11.3.25 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 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)

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 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

Elective Courses (3 credits)

In consultation with the MATL Program Adviser, students select 3 credits from 500- or 600-level courses related to the science and technology subject area or education. Students may elect to take EDSL 505 to add to their knowledge in teaching in second language contexts.

15.11.3.26 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	(2)	Ph.D. Colloquium 1
EDEC 704	(2)	Ph.D. Colloquium 2

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (3 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
EDSL 664	(3)	Second Language Research 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
EDSL 664	(3)	Second Language Research 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
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

15.11.3.27 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

EDEC 700	(2)	Proseminar in Education 1
EDEC 701	(0)	Ph.D. Comprehensive Examination
EDEC 702	(2)	Proseminar in Education 2
EDEC 703	(2)	Ph.D. Colloquium 1
EDEC 704	(2)	Ph.D. Colloquium 2
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (6 credits)

One of the following courses:

EDEC 705	(3)	Advanced Research Designs
EDEC 706	(3)	Textual Approaches to Research
EDEC 707	(3)	Interpretive Inquiry
EDEM 692	(3)	Qualitative Research Methods
EDSL 630	(3)	Qualitative/Ethnographic Methods

EDSL 664	(3)	Second Language Research Methods

One course, at the 500 level or higher on gender/women's issues, to be chosen from the approved list (available from the McGill Institute for Gender, Sexuality, and Feminist Studies) in consultation with the Doctoral Advisory Committee depending on the student's background and research interests. In some cases, additional courses may be required or recommended by the Doctoral Advisory Committee.

15.11.3.28 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

EDSL 711	(2)	Language Acquisition Issues 3
LING 710	(2)	Language Acquisition Issues 2
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

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

6 credits selected from the following list, at least one course must be outside the Department of Integrated Studies in Education:

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
EDSL 664	(3)	Second Language Research Methods
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

15.11.3.29 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)

EDEC 624	(3)	Researching, Teaching, Learning and Teacher Education
EDEC 700	(2)	Proseminar in Education 1
EDEC 701	(0)	Ph.D. Comprehensive Examination
EDEC 702	(2)	Proseminar in Education 2
EDEC 703	(2)	Ph.D. Colloquium 1
EDEC 704	(2)	Ph.D. Colloquium 2
EDEC 708	(3)	PhD Seminar in Math and Science Education 1
EDEC 709	(3)	PhD Seminar in Math and Science Education 2

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses

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.

EDPE 682	(3)	Univariate/Multivariate Analysis

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.

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
EDSL 664	(3)	Second Language Research Methods

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.

15.11.3.30 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:

EDEC 635	(3)	Advanced Written Communication
EDEM 610	(3)	Leadership in Action
EDEM 628	(3)	Education Resource Management
EDEM 635	(3)	Fiscal Accountability in Education
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.

15.11.3.31 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.

15.11.3.32 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
EDSL 602	(3)	Methods and Curriculum in Second Language Teaching 2

15.11.4 Kinesiology and Physical Education

15.11.4.1 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
Fax: 514-398-4186
Email: *kin.physed@mcgill.ca*
Website: *www.mcgill.ca/edu-kpe*

15.11.4.2 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.

section 15.11.4.5: Master of Arts (M.A.); Kinesiology and Physical Education (Thesis) (45 credits) **and** ***section 15.11.4.6: Master of Science (M.Sc.); Kinesiology and Physical Education (Thesis) (45 credits)***

The thesis programs in Kinesiology and Physical Education are designed to help students develop research skills and expertise in their selected areas of research. All students must have a physical science background to study in the M.Sc. program and a social-psychological background to study in the M.A. program. 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.

section 15.11.4.7: Master of Arts (M.A.); Kinesiology and Physical Education (Non-Thesis) (45 credits) **and** ***section 15.11.4.8: Master of Science (M.Sc.); Kinesiology and Physical Education (Non-Thesis) (45 credits)***

The non-thesis programs are not being offered in 2013–2014.

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.

15.11.4.3 Kinesiology and Physical Education Admission Requirements and Application Procedures

15.11.4.3.1 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.

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 11.6.3: Application Procedures* for detailed application procedures.

15.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Feb. 15	Fall: Feb. 15	Fall: June 30
Winter: Sept. 1	Winter: Sept. 1	Winter: Sept. 1
Summer: N/A	Summer: N/A	Summer: N/A

15.11.4.4 Kinesiology and Physical Education Faculty

Chair

Dr. René A. Turcotte (*Interim*)

Graduate Program Director

Dr. 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.)

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.)

Associate Professors

David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)

Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.)

Tanja Taivassalo; B.Sc., Ph.D.(McG.)

René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.)

Assistant Professors

Dennis Jensen; B.P.E.(Brock), M.Sc., Ph.D.(Qu.)

Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Faculty Lecturer

Celena Scheede-Bergdahl; B.Sc.(C'dia), M.Sc.(Montr.), Ph.D.(Copen.)

Adjunct Professors

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)

Robert Thomas Jagoe; B.A.(Camb.), M.B., B.Chir., M.R.C.P.(UK), C.C.S.T. (Resp. and General (Internal Med.)), Ph.D.(Newcastle, UK), F.R.C.P.

15.11.4.5 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).

15.11.4.6 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
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

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 Science chosen in consultation with the adviser (500, 600, or 700 level).

15.11.4.7 Master of Arts (M.A.); Kinesiology and Physical Education (Non-Thesis) (45 credits)

This program is not offered for 2013-2014.

Areas: Adapted Physical Activity, Pedagogy, and Sport and Exercise Psychology

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 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 selected from the following:

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

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).

15.11.4.8 Master of Science (M.Sc.); Kinesiology and Physical Education (Non-Thesis) (45 credits)

This program is not offered for 2013-2014.

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
EDKP 672	(6)	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).

16 Faculty of Engineering

16.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

16.2.2 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.

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 2013–2014

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

16.4 Graduate Studies at a Glance

16.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.

Faculty of Arts	Degrees Available
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.

Faculty of Medicine	Degrees Available
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

16.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.

Degree		Prerequisites
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

16.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis)

Master of Arts (M.A.)		
		Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A

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

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

Religious Studies	Non-Thesis	N/A

Master of Science (M.Sc.)

Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology

Master of Science (M.Sc.)		
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

16.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.

Degree		Prerequisites
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

16.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education

Doctor of Philosophy (Ph.D.)		
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

16.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

16.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies

Graduate Certificates	
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies >* *section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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 studies must be approved by GPS before registration. Double counting is not permitted.

16.6 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 permits. 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.

16.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

16.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

16.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

16.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

16.6.4 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* 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*.

16.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least "Pass."
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

16.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

16.6.7 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.

16.6.8 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.

16.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

16.6.10 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.

Revised – Council of February 9, 2004.

16.6.11 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.

16.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil the definition above and for whom there is an assurance of appropriate funding and where the unit can provide assurance of the necessary resources to permit postdoctoral education.

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

16.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

16.11.1 Architecture

16.11.1.1 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*

16.11.1.2 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 16.11.1.5: Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio (45 credits)

The Master of Architecture (Professional) Non-Thesis – Design Studio concentration requires a minimum of three terms (45 credits) for completion according to an intensive design studio-based curriculum. This option is a three-term consecutive degree (Fall, Winter, Summer) requiring full-time residence for one calendar year. For further information regarding admission eligibility and requirements, please see: *www.mcgill.ca/architecture/programs/professional*.

section 16.11.1.6: Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio-Directed Research (60 credits)

The Master of Architecture (Professional) Non-Thesis – Design Studio Directed Research concentration is a four-term (60-credit) option, which, as a modified version of the regular three-term (45-credit) stream, remains a project-based investigation with an intensive research component. Candidates within this concentration option are assigned a faculty adviser and engage in project-based directed research through an approved curriculum. It concludes with a two-term final project that includes a written component to the project-based investigation. Areas of research interest must be specified as indicated in the application form. Complementary and elective courses are approved in consultation with 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 Technology, 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 16.11.1.7: 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 16.11.1.8: Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Cultural Mediations and Technology (45 credits)

The Cultural Mediations and Technology concentration explores the way in which architectural practices are mediated by the broader contexts in which they are rooted and how they in turn shape our understanding of built, cultural, social, technological, and political environments. Studies focus on contemporary theory and cultural practices in an interdisciplinary context of architectural, artistic, vernacular, and community-based activities. This concentration also investigates the impact of technology on our way of creating architectural models that subsequently shape and form the world. It capitalizes on the expertise of the architect-researcher to move freely between art and science, 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 environment. It is suited for those with a professional trajectory interested in understanding the impact of technologies on creative processes, as well as for those candidates who aim to pursue Ph.D.-level studies and research. The concentration offers a unique intertwining of intense theoretical and historical investigation with empirically based project research that culminates in a Project Report.

section 16.11.1.9: Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Urban Design and Housing (45 credits)

Urban Design and Housing at McGill is comprised of Urban Design, Affordables Homes, and Minimum Cost Housing. Urban Design emphasizes the acquisition of skills pertaining to the analysis and design of the built environment, whether in existing urban districts or in newly built areas. Our Urban Design component has a strong commitment to reflexive practice, to conducting research that can inform and improve design quality, to involving those who are affected by city design decisions, and to promoting a long-range perspective on the consequences of actions that shape the urban environment. The Housing component is comprised, historically, of two streams: Affordable Homes and Minimum Cost Housing. Affordable Homes focuses on the knowledge and design skills necessary to understand the relationship between the architect and the external forces that influence the production of affordable housing in North America. Minimum Cost Housing addresses problems and devises philosophies of shelter in developing countries. The general aim is to provide professionals with the knowledge and imagination that they will need to engage individuals and the community in meaningful debates on the nature of housing and urban space and generate creative and sustainable solutions for cities. This option is particularly attractive to students who wish to pursue careers in public agencies and private consulting firms where a credential in Urban Design is important.

Ph.D. in Architecture

section 16.11.1.10: 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.

16.11.1.3 Architecture Admission Requirements and Application Procedures

16.11.1.3.1 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.

16.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

16.11.1.3.2.1 Additional Requirements

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

Professional Master of Architecture:

- Summary of work experience (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;
- Provide an indication of preference for either the Design Studio option (three-term, 45-credit) or the Design Studio Directed Research option (four-term, 60-credit);
- Applicants to the M.Arch. (Professional) Design Studio Directed Research option will need to provide a two-page (maximum) Research Statement indicating their general area of interest, their understanding of this area of study, faculty expertise, and research intention in terms of topic and project-based investigation. Specific references to expertise within the School are encouraged (e.g., History and Theory of Architecture; Cultural Landscape Studies; Affordable and Sustainable Housing; Computation and Fabrication; High-performance Visualization; Minimum Cost Housing; Gender, Sexuality and Space; Design and Health; Urban Design; Landscape Urbanism; Architectural Representation; Urban Agriculture; Vernacular Architecture; Reurbanization).
- Applicants to the M.Arch. (Professional) Design Studio option will need to provide a one-page (maximum) statement on the reasons for selecting this option.

Additional Requirements for McGill B.Sc.(Arch.) Graduates:

- A comprehensive portfolio (PDF format, max. 5 MB, due no later than **January 15**) that may include the following:
  - selected work from all previous design studios (please complete using one of the following): *Studio Project Description Form* [.pdf]* or *Studio Project Description Form* [.doc]*;
  - examples of project work from other courses;
  - examples of freehand drawing and sketching (from the Freehand Drawing courses, Sketching School, Summer courses, and independent travel and study);
  - examples of professional work: sketches, drawings, images of models, photographs of built work (professional work includes work carried out while employed in architects' offices, as well as personal projects; please identify the architect(s) and your own roles in each project illustrated).

Additional Requirements for Graduates of Programs Other than McGill B.Sc.(Arch.):

- One set of official transcripts sent directly by the registrars of all universities attended;
- Reference Letters – two confidential letters of reference sent directly by the referees. Once you have identified the referees on your application form, McGill will contact your referees and ask them to upload their reference in support of your application. Please ask your referee to use one of the following: *Confidential Report on Applicant Form* [.pdf]* or *Renseignements confidentiels sur le candidat* [.pdf]*.
- Course calendar descriptions of previous college and/or university studies;
- Completed Program Comparison Chart*;
- A comprehensive portfolio (PDF format, max. 5 MB, due no later than **January 15**) that may include the following:
  - selected work from all previous design studios (please complete using one of the following): *Studio Project Description Form* [.pdf]* or *Studio Project Description Form* [.doc]*;
  - examples of project work from other courses;
  - examples of freehand drawing and sketching;
  - examples of professional work: sketches, drawings, images of models, photographs of built work (professional work includes work carried out while employed in architects' offices, as well as personal projects; please identify the architect(s) and your own roles in each project illustrated).

Post-professional programs:

M.Arch. (Post-professional) and Ph.D.

- Reference Letters – two confidential letters of reference must be sent directly by the referees. Once you have identified the referees on your application form, McGill will contact them to ask that they upload their reference in support of your application. Referees will be prompted electronically to use one of the following: *Confidential Report on Applicant Form* [.pdf]* or *Renseignements confidentiels sur le candidat* [.pdf]*.

  Note: Any additional uploaded letters must be on university or company/business stationery.

- Master's 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 topic, as well as a detailed explanation of why they wish to study at McGill University's School of Architecture.

  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, max. 5 MB) containing at least five examples of the applicant's work. Doctoral applicants may submit evidence of research interests when a portfolio is not available.
- Written work (published articles, academic papers, research report, etc.)

* *These documents are available in PDF or DOC format on the School of Architecture website.*

16.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: May 1 (M.Arch. (Professional) only)
Winter: N/A	Winter: N/A	Winter: Oct. 15 (M.Arch. (Professional) only)
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Summer term admission will not be considered.

16.11.1.4 Architecture Faculty

Director

Annmarie 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 Zuk; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(U.A.A.), F.R.A.I.C., O.A.Q., O.A.A.

Professors

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*William C. Macdonald Professor of Architecture*)

Vikram Bhatt; N.Dip. Arch.(Ahmed.), M.Arch.(McG.), M.R.A.I.C.

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.

Alberto Pérez-Gómez; Dipl.Eng.Arch.(Nat. Pol. Inst. Mexico), M.A., Ph.D.(Essex), M.R.A.I.C. (*Saidye Rosner Bronfman Professor of Architectural History*)

Associate Professors

Martin Bressani; B.Sc., B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris-Sorbonne – Paris IV), O.A.Q.

Ricardo L. Castro; B.Arch.(Los Andes, Col.), M.Arch., M.A.(Ore.), F.R.A.I.C.

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.

Michael Jemtrud; B.A., B.Sc., B.Arch.(Penn. St.), M.Arch.(McG.), M.R.A.I.C.

Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.), M.C.I.P.

Robert Mellin; B.Arch., M.Sc.(Arch.)(Penn.), M.Arch.(McG.), M.Sc., Ph.D.(Penn.), F.R.A.I.C., N.A.A.

Assistant Professors

Aaron Sprecher; B.Arch.(Bezalel), M.Arch.(Calif.-LA)

Ipek Türeli; 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

Morgan Carter, Nancy Dunton, Marc Hallé, Francisca Insulza, Andrew King, Sevag Pogharian, Pieter Sijpkes

16.11.1.5 Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio (45 credits)

This concentration requires a minimum of three terms (45 credits) for completion according to an intensive design studio-based curriculum. This option is a three-term consecutive degree (Fall, Winter, Summer) that requires full-time residence for one academic year.

Required Courses (30 credits)

ARCH 550	(3)	Urban Planning and Development
ARCH 672	(6)	Architectural Design 1
ARCH 673	(6)	Architectural Design 2
ARCH 674	(3)	Professional Practice 1
ARCH 677	(6)	Architectural Design 3
ARCH 678	(3)	Advanced Construction
ARCH 680	(3)	Field Sketching

Complementary Courses

9-15 credits selected as follows:

Group A:

6 credits of advanced-level seminars must be chosen from Group A.

ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 626	(4)	Critical Design Strategies
ARCH 684	(4)	Contemporary Theory 1
ARCH 685	(4)	Contemporary Theory 2

Group B:

3 credits chosen from Group B.

ARCH 512	(3)	Architectural Modelling
ARCH 514	(4)	Community Design Workshop
ARCH 515	(3)	Sustainable Design
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 523	(3)	Significant Texts and Buildings
ARCH 526	(3)	Philosophy of Structure
ARCH 527	(3)	Civic Design

ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 533	(3)	New Approaches to Architectural History
ARCH 534	(3)	Architectural Archives
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
ARCH 554	(2)	Mechanical Services
ARCH 622	(3)	Critical Writing
ARCH 626	(4)	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 fulfil one group only.

Elective Courses

0-6 credits

A maximum of 6 credits may be completed outside the School of Architecture (500- or 600-level electives).

16.11.1.6 Master of Architecture (M.Arch.); Professional (Non-Thesis) — Design Studio-Directed Research (60 credits)

The Directed Research concentration is a four-term, 60-credit option, which is a modified version of the regular three-term 45-credit program. This is a self-directed project-based investigation that allows for a transition to a Ph.D. program through an intensive research component.

Candidates within this concentration option are assigned a faculty adviser and engage in project-based directed research. Complementary and elective courses are approved in consultation with the adviser.

Required Courses (40 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 678	(3)	Advanced Construction
ARCH 682	(6)	Directed Research Project 1
ARCH 683	(9)	Directed Research Project 2

Complementary Courses

(12-20 credits)

Group A:

6 credits chosen from the following courses:

ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 602	(4)	Urban Design Seminar 1
ARCH 604	(4)	Urban Design Seminar 2

ARCH 684	(4)	Contemporary Theory 1
ARCH 685	(4)	Contemporary Theory 2

Group B:

6 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 523	(3)	Significant Texts and Buildings
ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 526	(3)	Philosophy of Structure
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 533	(3)	New Approaches to Architectural History
ARCH 534	(3)	Architectural Archives
ARCH 535	(3)	History of Architecture in Canada
ARCH 536	(3)	Heritage Conservation
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
ARCH 554	(2)	Mechanical Services
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar
ARCH 602	(4)	Urban Design Seminar 1
ARCH 604	(4)	Urban Design Seminar 2
ARCH 622	(3)	Critical Writing
ARCH 627	(4)	Research Methods for Architects
ARCH 679	(3)	Writing in Architecture
ARCH 680	(3)	Field Sketching
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

(0-8 credits)

A maximum of 8 credits may be completed outside the School of Architecture (500- or 600-level electives) with the approval of an assigned faculty adviser.

16.11.1.7 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)

ARCH 622	(3)	Critical Writing
ARCH 623	(3)	Project Preparation
ARCH 650	(8)	Architectural History Seminar 1
ARCH 651	(8)	Architectural History Seminar 2
ARCH 652	(4)	Architectural Theory Seminar 1
ARCH 653	(4)	Architectural Theory Seminar 2

16.11.1.8 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.

16.11.1.9 Master of Architecture (M.Arch.); Post-professional (Non-Thesis) — Urban Design and Housing (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 urban design and housing theory and research methods. ARCH 603 Urban Design Studio is taken in tandem with ARCH 623 Project Preparation during the winter term, culminating in the Urban Design and Housing Research Report (ARCH 632).

Research Report (15 credits)

ARCH 632	(15)	Urban Design and Housing Research Report

Required Courses (21 credits)

ARCH 602	(4)	Urban Design Seminar 1
ARCH 603	(6)	Urban Design Studio
ARCH 604	(4)	Urban Design Seminar 2
ARCH 623	(3)	Project Preparation
ARCH 627	(4)	Research Methods for Architects

Complementary Courses (9 credits)

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 523	(3)	Significant Texts and Buildings
ARCH 526	(3)	Philosophy of Structure
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 533	(3)	New Approaches to Architectural History
ARCH 535	(3)	History of Architecture in Canada
ARCH 536	(3)	Heritage Conservation
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
ARCH 550	(3)	Urban Planning and Development
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar
ARCH 622	(3)	Critical Writing
ARCH 680	(3)	Field Sketching
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3
URBP 616	(3)	Selected Topics 1
URBP 617	(3)	Selected Topics 2
URBP 618	(3)	Selected Topics 3

URBP 619	(3)	Land Use and Transportation Planning
URBP 625	(2)	Principles and Practice 2
URBP 626	(2)	Principles and Practice 3
URBP 629	(3)	Cities in a Globalizing World

16.11.1.10 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

16.11.2 Chemical Engineering

16.11.2.1 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*

16.11.2.2 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.

section 16.11.2.5: 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 16.11.2.6: 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 16.11.2.7: 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 16.11.2.8: 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.

16.11.2.3 Chemical Engineering Admission Requirements and Application Procedures

16.11.2.3.1 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. 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.

16.11.2.3.2 Application Procedure

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

16.11.2.3.2.1 Additional Requirements

- Reference Letter – Ph.D. applicants must submit a letter of recommendation from their master's research supervisor.

16.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: Jan. 15	Summer: Jan. 15	Summer: Jan. 15

Application Deadlines differ for International and Canadian (and Permanent Resident) students to allow time to obtain a visa.

16.11.2.4 Chemical Engineering Faculty

Chair

S. Coulombe

Emeritus Professors

D.G. Cooper; B.Sc., Ph.D.(Tor.)

J.M. Dealy; B.S.(Kansas), M.S.E., Ph.D.(Mich.), Eng.

M.R. Kamal; B.S.(III.), M.S., Ph.D.(Carn. Mell), Eng.

R.J. Munz; B.A.Sc.(Wat.), Ph.D.(McG.)

J.H. Vera; B.Mat.(Chile), Ing.Quim.(U.T.E.), M.S.(Calif.), Dr.Ing.(Santa Maria), Eng.

Professor

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.

S. Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), Jr. Eng. (*CRC-Tier II*)

R.J. Hill; B.E.(Auck.), Ph.D.(C'nell) (*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.

J.-L. Meunier; D.Ing.(E.P.F.L.), M.Sc., Ph.D.(I.N.R.S.), Eng.

S. Omanovic; B.Sc., Ph.D.(Zagreb)

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.)

E. Jones; B.A.Sc.(Wat.), M.S., Ph.D.(Cal. Tech.) Jr. Eng. (*CRC-Tier II*)

A. Kietzig; Dipl.Ing.(TU Berlin), Ph.D.(Br. Col.)

16.11.2.5 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.

16.11.2.6 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.

16.11.2.7 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.

16.11.2.8 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

CHEE 681	(1)	Laboratory Safety 1
CHEE 682	(1)	Laboratory Safety 2
CHEE 795	(0)	Ph.D. Thesis Proposal
CHEE 796	(0)	Ph.D. Proposal Defence
CHEE 797	(0)	Ph.D. Seminar

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:

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

* 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.

16.11.3 Civil Engineering and Applied Mechanics

16.11.3.1 Location

Department of Civil Engineering and Applied Mechanics
Macdonald Engineering Building, Room 492
817 Sherbrooke Street West
Montreal, QC H3A 0C3
Canada

Telephone: 514-398-6858
Fax: 514-398-7361
Email: *gradinfo.civil@mcgill.ca*
Website: *www.mcgill.ca/civil*

16.11.3.2 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.

section 16.11.3.5: 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.

section 16.11.3.6: 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.

section 16.11.3.7: Master of Engineering (M.Eng.); Civil Engineering (Non-Thesis) (45 credits)

This is primarily a coursework degree with a small independent project.

section 16.11.3.8: 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.

section 16.11.3.9: 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.

16.11.3.3 Civil Engineering and Applied Mechanics Admission Requirements and Application Procedures

16.11.3.3.1 Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply and are detailed in *section 11.6: 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 (*www.ets.org/toefl*) or the IELTS (*www.ielts.org*) websites.

16.11.3.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

16.11.3.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: March 15
Winter: Oct. 15	Winter: Sept. 15	Winter: Oct. 15
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Summer term admission will not be considered.

16.11.3.4 Civil Engineering and Applied Mechanics Faculty

Chair

V.T.V. Nguyen

Chair of Graduate Program

G. McClure

Emeritus Professors

P.J. Harris; B.Sc.(Manit.), M.Eng., Ph.D.(McG.), F.E.I.C., F.C.S.C.E., Eng.

M.S. Mirza; M.S., B.Eng.(Karachi), M.Eng., Ph.D.(McG.), F.E.I.C., F.C.S.C.E., F.A.C.I., Hon. F.I.E.P., Eng.

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.

V.T.V. Nguyen; B.M.E.(Vietnam), M.C.E.(A.I.T.), D.A.Sc.(Montr.), Eng.

J. Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.

A.P.S. Selvadurai; M.S.(Stan.), Ph.D., D.Sc.(Nott.), F.E.I.C., F.I.M.A., F.C.S.C.E., P.Eng.

S.C. Shrivastava; B.Sc.(Eng.)(Vikram), M.C.E.(Del.), Sc.D.(Col.)

Associate Professors

A.J. Boyd; B.Sc.Eng.(New Br.), M.A.Sc.(Tor.), Ph.D.(Br. Col.), P.Eng., F.A.C.I.

L. Chouinard; B.Ing., M.Ing.(Montr.), B.C.L.(McG.), Sc.D.(MIT), Eng.

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.(India), M.S.(Missouri), Ph.D.(Carn. Mell), P.Eng.

G. McClure; B.Ing.(Montr.), S.M.(MIT), Ph.D.(Montr.), 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.(N'western), 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(China), ME(Rensselaer Poly.), Ph.D.(Purd.)

L. Miranda-Moreno; B.Sc., M.Eng.(Mexico), Ph.D.(Wat.)

Adjunct Professors

S. Babarutsi, R. Edwards, J. Hadjinicolaou, J. Hawari, A. Keane, Z. Lounis, C. Manatakos, T.S. Nguyen, P. Rodrigue, S. Scola, W. Taylor, M. Villeneuve, J. Vrana

16.11.3.5 Master of Engineering (M.Eng.); Civil Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)

CIVE 630	(3)	Thesis Research 1
CIVE 631	(3)	Thesis Research 2
CIVE 632	(3)	Thesis Research 3
CIVE 633	(6)	Thesis Research 4
CIVE 634	(6)	Thesis Research 5
CIVE 635	(6)	Thesis Research 6

Required Course

1 credit:

CIVE 662	(1)	Masters Research Seminar

Complementary Courses (17 credits)

(minimum 17 credits)

A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

16.11.3.6 Master of Science (M.Sc.); Civil Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)

CIVE 630	(3)	Thesis Research 1
CIVE 631	(3)	Thesis Research 2
CIVE 632	(3)	Thesis Research 3
CIVE 633	(6)	Thesis Research 4
CIVE 634	(6)	Thesis Research 5
CIVE 635	(6)	Thesis Research 6

Required Course

1 credit:

CIVE 662	(1)	Masters Research Seminar

Complementary Courses (17 credits)

A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

16.11.3.7 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.

16.11.3.8 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.

16.11.3.9 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.

16.11.4 Electrical and Computer Engineering

16.11.4.1 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*

16.11.4.2 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; and Intelligent Systems. 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/gps/funding/students-postdocs*, or contact Graduate and Postdoctoral Studies, McGill University, James Administration Building, Room 400, 845 Sherbrooke Street West, Montreal, QC, H3A 0G4.

section 16.11.4.5: 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 16.11.4.6: Master of Engineering (M.Eng.); Electrical Engineering (Thesis) — Computational Science and Engineering (47 credits)

This program is under review for 2013–2014 and may not be offered. Please inquire.

section 16.11.4.7: 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 16.11.4.8: 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.

16.11.4.3 Electrical and Computer Engineering Admission Requirements and Application Procedures

16.11.4.3.1 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.

16.11.4.3.2 Application Procedures

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

See *section 11.6.3: 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.

16.11.4.3.2.1 Additional Requirements

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

- Area of Research and Applicant Profile Form
- GRE: the General Aptitude Test is required by all students who have not completed their undergraduate or graduate degree in Canada.

16.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

All documents must be received by the Department's Admissions Committee by the application deadlines.

16.11.4.4 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.

Pierre R. Bélanger; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Maier L. Blostein; B.Eng., M.Eng.(McG.), Ph.D.(Ill.), F.I.E.E.E., Eng.

Clifford H. Champness; M.Sc.(Lond.), Ph.D.(McG.)

Gerry W. Farnell; B.A.Sc.(Tor.), S.M.(MIT), Ph.D.(McG.), F.I.E.E.E., Eng.

Francisco D. Galiana; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Peter Kabal; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

Lorne Mason; M.Eng., Ph.D.(Sask.)

Boon-Teck Ooi; B.E.(Adel.), S.M.(MIT), Ph.D.(McG.), Eng.

Tomas J.F. Pavlasek; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Nicholas C. Rumin; B.Eng., M.Sc., Ph.D.(McG.), Eng.

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.)

Professors

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.) (*Associate Dean, Academic*)

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.

Martin D. Levine; B.Eng., M.Eng.(McG.), Ph.D.(Lond.), F.C.I.A.R., F.I.E.E.E., Eng.

David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F.C.A.E., Eng. (*James McGill Professor*)

David V. Plant; M.S., Ph.D.(Brown), F.I.E.E.E., F.O.S.A., F.E.I.C., F.C.A.E., P.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*)

Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.)

Vamsy Chodavarapu; B.Eng.(Osmania), M.S., Ph.D.(NYU)

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.)

Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.)

Roni Khazaka; M.Eng., Ph.D.(Car.)

Fabrice Labeau; M.S., Ph.D.(Louvain)

Steve McFee; B.Eng., Ph.D.(McG.)

Zetian Mi; B.A.Sc.(Beijing), M.Sc.(Iowa), Ph.D.(Mich.)

Hannah Michalska; B.Sc., M.Sc.(Warsaw), Ph.D.(Lond.)

Sam Musallam; B.Sc., M.Sc., Ph.D.(Tor.)

Milica Popovich; B.Sc.(Colo.), M.Sc., Ph.D.(N'western)

Ioannis Psaromiligkos; B.Sc.(Patras), M.Sc., Ph.D.(Buffalo)

Martin Rochette; B.A., M.Eng., Ph.D.(Laval)

Richard Rose; B.Sc., M.S.(Ill.), Ph.D.(GIT)

Thomas Szkopek; B.A.Sc., M.A.Sc.(Tor.), Ph.D.(Calif.-LA)

Ishiang Shih; M.Eng., Ph.D.(McG.)

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.(Col.)

Aditya Mahajan, B.Tech.(Indian IT), M.S., Ph.D.(Mich.)

Brett Meyer; B.S.(Wisc.), M.S., Ph.D.(Carn. Mell)

Michael Rabbat; B.S.(Ill.), M.S.(Rice), Ph.D.(Wisc.)

Assistant Professors

Haibo Zeng; B.E., M.E.(Tsinghua), M.S., Ph.D.(Calif., Berk.)

Associate Members

Gregory Dudek, Alan C. Evans, William R. Funnell, Henrietta L. Galiana, Jean Gotman, David Juncker, Robert E. Kearney, Nathaniel J. Quitoriano

Adjunct Professors

Ray Bartnikas, Danny Grant, Cedric Guss, Ricardo Izquierdo, Cheng K. Jen, Innocent Kamwa, Irene Leszkowicz, Martin Maier, Shie Mannor, Douglas O'Shaughnessy, Katarzyna Radecka, Robert Sabourin, Joshua David Schwartz, Leszek Szczecinski, Claude Thibeault, Kenneth D. Wagner

16.11.4.5 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)

ECSE 691	(4)	Thesis Research 1
ECSE 692	(4)	Thesis Research 2
ECSE 693	(4)	Thesis Research 3
ECSE 694	(4)	Thesis Research 4
ECSE 695	(4)	Thesis Research 5
ECSE 696	(4)	Thesis Research 6
ECSE 697	(4)	Thesis Research 7

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.

16.11.4.6 Master of Engineering (M.Eng.); Electrical Engineering (Thesis) — Computational Science and Engineering (47 credits)

Program under review for 2013-2014 - may not be offered.

Thesis Courses (28 credits)

ECSE 691	(4)	Thesis Research 1
ECSE 692	(4)	Thesis Research 2
ECSE 693	(4)	Thesis Research 3
ECSE 694	(4)	Thesis Research 4
ECSE 695	(4)	Thesis Research 5
ECSE 696	(4)	Thesis Research 6
ECSE 697	(4)	Thesis Research 7

Required Course (1 credit)

ECSE 670D1	(.5)	Computational Science Engineering Seminar
ECSE 670D2	(.5)	Computational Science Engineering Seminar

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

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: Applications 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 514	(3)	Structural Mechanics
CIVE 572	(3)	Computational Hydraulics
CIVE 603	(4)	Structural Dynamics
COMP 557	(3)	Fundamentals of Computer Graphics
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)	Theory of Elasticity
MECH 642	(4)	Advanced Dynamics
MECH 650	(4)	Fundamentals of Heat Transfer
MECH 654	(4)	Compt. Fluid Flow and Heat Transfer

16.11.4.7 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

(27-36 credits)

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.

16.11.4.8 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

ECSE 701	(0)	Ph.D. Qualifying Examination
ECSE 702	(0)	Ph.D. Research Plan Proposal
ECSE 703	(0)	Doctoral Research Seminar

In addition to the successful completion of the required courses above, students must complete the courses prescribed by the student's Supervisory Committee.

16.11.5 Mechanical Engineering

16.11.5.1 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*

16.11.5.2 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 of study leading to the M.Eng., M.Sc., and Ph.D. degrees in Mechanical Engineering. Both M.Eng. (Thesis) and M.Eng. (Non-Thesis) programs are offered.

There are several options for completing master's degrees that do not involve the completion of a thesis. The M.Eng. (Non-Thesis) program has more extensive course requirements and will appeal to students who desire to gain both a broad understanding of subjects within Mechanical Engineering as well as in-depth information in a specific area. Two other non-thesis master's degree options are described below.

section 16.11.5.5: 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 16.11.5.6: 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 16.11.5.7: 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 16.11.5.8: 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
4. Virtual Environment

section 14.13.4: Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

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 16.11.5.10: Master of Science (M.Sc.); Mechanical Engineering (Thesis) (45 credits)

Please consult the Department for more information on this program.

section 16.11.5.11: 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.

16.11.5.3 Mechanical Engineering Admission Requirements and Application Procedures

16.11.5.3.1 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.

16.11.5.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

Please consult *www.mcgill.ca/mecheng/grad* for further details on required application documents.

16.11.5.3.2.1 Additional Requirements

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

- two official Referee Reports
- Personal Statement – one page
- an updated list of publications
- list of extra-curricular activities
- Curriculum Vitae
- proof of French proficiency (for Aerospace program only)

16.11.5.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Oct. 15	Winter: Oct. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

Please also consult the Departmental website for the application deadlines: *www.mcgill.ca/mecheng/grad/date*.

16.11.5.4 Mechanical Engineering Faculty

Chair

A.K. Misra

Graduate Program Director

L.G. Mongeau

Graduate Admissions and Scholarships Director

S. Nadarajah

Graduate Aerospace Director

P. Hubert

Emeritus Professors

A.M. Ahmed; B.Sc.(Dhaka), Ph.D.(McG.), ing. (*Thomas Workman Emeritus Professor of Mechanical Engineering*)

R. Knystautas; B.Eng., M.Eng., Ph.D.(McG.), ing.

D.F. Mateescu; M.Eng.(Poli. U. Buch.), Ph.D.(Rom. Acad. Sci.), Doctor Honoris Causa(Poli. U. Buch.), A.F.A.I.A.A., F.C.A.S.I.

M.P. Païdoussis; B.Eng.(McG.), Ph.D.(Camb.), ing., F.I. Mech.E., F.A.S.M.E., F.A.A.M., F.C.S.M.E., F.R.S.C., F.C.A.E. (*Thomas Workman Emeritus Professor of Mechanical Engineering*)

S.J. Price; B.Sc., Ph.D.(Brist.), P.Eng.

Post-Retirement

G. Bach; B.Sc.(Alta.), M.Sc.(Birm.), Ph.D.(McG.)

L. Kops; B.Eng., M.Eng., D.Sc., Eng.(Krakow Tech U.), ing., F.C.I.R.P., F.A.S.M.E., F.C.S.M.E., M.S.M.E.

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*)

J. Angeles; B.Sc., M.Sc.(UNAM Mexico), Ph.D.(Stan.), Eng., F.A.S.M.E., F.C.S.M.E., F.C.A.E., F.R.S.C. (*James McGill Professor*)

B.R. Baliga; B.Tech.(I.I.T. Kanpur), M.Sc.(Case West.), Ph.D.(Minn.)

E. Fried; A.B.(Calif., Berk.), B.S.(Calif. Poly.), M.S., Ph.D.(Calif. Tech.) (*Canada Research Chair*)

W.G. Habashi; B.Eng., M.Eng.(McG.), Ph.D.(C'nell), ing., F.A.S.M.E., F.A.I.A.A., F.C.A.E., F.R.S.C. (*NSERC-J. Armand Bombardier Industrial Research Chair*)

G. Haller; M.Sc.(Budapest), Ph.D.(Calif. Tech.) (*Faculty of Engineering Distinguished Professor*)

P. Hubert; B.Eng., M.A.Sc.(École Poly., Montr.), Ph.D.(Br. Col.), ing.

J.H.S. Lee; B.Eng.(McG.), M.Sc.(MIT), Ph.D.(McG.), ing., F.R.S.C., F.C.A.E.

A.K. Misra; B.Tech.(I.I.T., Kgp.), Ph.D.(Br. Col.), P.Eng., F.A.A.S., F.A.I.A.A., F.C.A.E. (*Thomas Workman Professor of Mechanical Engineering*)

L. Mongeau; B.Sc., M.Sc.(École Poly., Montr.), Ph.D.(Penn St.), ing. (*Canada Research Chair*)

M. Nahon; B.Sc.(Qu.), M.Sc.(Tor.), Ph.D.(McG.), ing., A.F.A.I.A.A.

Associate Professors

F. Barthelat; M.Sc.(Roch.), Ph.D.(N'western)

J. M. Bergthorson; B.Sc.(Manit.), M.Sc., Ph.D.(Calif. Tech.), P.Eng.

L. Cortelezzi; M.Sc., Ph.D.(Calif. Tech.)

D.L. Frost; B.A.Sc.(Br. Col.), M.S., Ph.D.(Calif. Tech.), P.Eng.

A.J. Higgins; B.Sc.(Ill.), M.S., Ph.D.(Wash.)

M. Kokkolaras; Dipl.Ing.(TUM), Ph.D.(Rice)

J Kövecses; M.Sc.(U. Miskolc), Ph.D.(Hung. Acad. Sci.), ing.

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. Mydlarski; B.Sc.(Wat.), Ph.D.(C'nell)

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.

I. Sharf; B.A.Sc., Ph.D.(Tor.)

E.V. Timofeev; M.Sc., Ph.D.(S.T.U. St. Petersburg), Eng., A.F.A.I.A.A.

Associate Professors

S. Vengallatore; B.Tech.(B.H.U), Ph.D.(MIT) (*Canada Research Chair*)

Assistant Professors

J.R. Forbes; B.Sci.(Wat.), M.Sc., Ph.D.(Tor.)

X. Liu; B.Eng., M.Eng.(Harbin), Ph.D.(Tor.)

Y.F. Zhao; B.Eng.(B.I.T.), M.Eng., Ph.D.(Auck.)

Non-Tenure-Track Faculty

H. Attia, A. Sabih, D. Zorbas

16.11.5.5 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)

MECH 691*	(3)	M.Eng. Thesis Literature Review
MECH 692	(4)	M.Eng. Thesis Research Proposal
MECH 693	(3)	M.Eng. Thesis Progress Report 1
MECH 694	(6)	M.Eng. Thesis Progress Report 2
MECH 695	(12)	M.Eng. Thesis

* Note: MECH 691 must be taken in the first term of the student's program.

Required Courses

1 credit:

MECH 609	(1)	Seminar

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level), at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

16.11.5.6 Master of Engineering (M.Eng.); Mechanical Engineering (Thesis) — Computational Science and Engineering (46 credits)

Thesis Courses (28 credits)

MECH 691*	(3)	M.Eng. Thesis Literature Review
MECH 692	(4)	M.Eng. Thesis Research Proposal
MECH 693	(3)	M.Eng. Thesis Progress Report 1
MECH 694	(6)	M.Eng. Thesis Progress Report 2
MECH 695	(12)	M.Eng. Thesis

* Note: MECH 691 must be complete in the first term of the student's program.

Required Courses (2 credits)

MECH 609	(1)	Seminar
MECH 669	(1)	Computational Science Engineering Seminar

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:

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 - Applications 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
COMP 557	(3)	Fundamentals of Computer Graphics
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)	Theory of Elasticity
MECH 642	(4)	Advanced Dynamics

MECH 650	(4)	Fundamentals of Heat Transfer
MECH 654	(4)	Compt. Fluid Flow and Heat Transfer

16.11.5.7 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)	Theory of Elasticity
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.

16.11.5.8 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)

MECH 687	(3)	Aerospace Case Studies
MECH 688	(6)	Industrial Stage

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.

16.11.5.9 Master of Management (M.M.); Manufacturing Management (Non-Thesis) (56 credits)

Required Courses (30 credits)

MECH 524	(3)	Computer Integrated Manufacturing
MECH 627	(9)	Manufacturing Industrial Stage
MECH 628	(2)	Manufacturing Case Studies
MECH 629	(1)	Manufacturing Industrial Seminar

MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 608	(3)	Data Decisions and Models
MGSC 631	(3)	Analysis: Production Operations

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

16.11.5.10 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 692	(4)	M.Eng. Thesis Research Proposal
MECH 693	(3)	M.Eng. Thesis Progress Report 1
MECH 694	(6)	M.Eng. Thesis Progress Report 2
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), at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

16.11.5.11 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

MECH 700	(0)	Ph.D. Literature Review
MECH 701	(0)	Ph.D. Thesis Proposal
MECH 702	(0)	Ph.D. Comprehensive Preliminary Oral Examination

16.11.6 Mining and Materials Engineering

16.11.6.1 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

16.11.6.2 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 16.11.6.5: 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 16.11.6.6: 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 satisfied the following:

1. they have a minimum CGPA of 3.3 for the last two full-time undergraduate years;
2. they have been in the master's program for less than 15 months;
3. they have 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. they have obtained a 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 16.11.6.7: 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 16.11.6.8: 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 16.11.6.9: Doctor of Philosophy (Ph.D.); Mining and Materials Engineering

Please consult the Department for more information about the Ph.D.

section 16.11.6.10: 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.

16.11.6.3 Mining and Materials Engineering Admission Requirements and Application Procedures

16.11.6.3.1 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.

16.11.6.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

16.11.6.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Oct. 15	Winter: Sept. 1	Winter: Sept. 15
Summer: Jan. 15	Summer: Jan. 15	Summer: Jan. 15

16.11.6.4 Mining and Materials Engineering Faculty

Department Chair

Stephen Yue

Graduate Program Director

George P. Demopoulos

Graduate Program Coordinator

Barbara Hanley

Emeritus Professors

John E. Gruzleski; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.), Eng., F.C.I.M., F.A.S.M. (*Gerald G. Hatch Emeritus Professor*)

John J. Jonas; B.Eng.(McG.), Ph.D.(Cant.), Eng., F.A.S.M., F.R.S.C. (*Henry Birks Emeritus Professor*)

Gordon W. Smith; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Professors

George P. Demopoulos; Dipl.Eng.(NTU Athens), M.Sc., Ph.D.(McG.), Eng., F.C.I.M. (*Gerald Hatch Faculty Fellow*)

Roussos Dimitrakopoulos; B.Sc.(Thessaloniki), M.Sc.(Alta.), Ph.D.(École Poly., Montr.) (*Canada Research Chair I*)

James A. Finch; B.Sc.(Birm.), M.Eng., Ph.D.(McG.), Eng., F.C.I.M., F.R.S.C. (*Gerald G. Hatch Professor*)

Raynald Gauvin; B.Ing., Ph.D.(Montr.), Eng.

Roderick I.L. Guthrie; B.Sc., Ph.D.(Lond.), D.I.C., Eng., A.R.S.M., F.C.I.M., R.R.S.C. (*William C. Macdonald Professor*)

Faramarz (Ferri) P. Hassani; B.Sc., Ph.D.(Nott.), C.Eng.(U.K. Reg.) (*George Boyd Webster Professor*)

Professors

Hani S. Mitri; B.Sc.(Cairo), M.Eng., Ph.D.(McM.), Eng.

Stephen Yue; B.Sc., Ph.D.(Leeds) (*James McGill Professor*) (*Lorne Trottier Chair in Aerospace Engineering*)

Associate Professors

Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.) (*Canada Research Chair II*)

Richard Chromik; B.Sc.(Penn. St.), M.Sc., Ph.D.(SUNY/Binghamton)

Mainul Hasan; B.Eng.(Dhaka), M.Eng.(Dhahran), Ph.D.(McG.)

Mustafa Kumral; B.Eng.(Hacettepe), M.Eng.(Cukurova), Ph.D.(Leeds)

Frank Mucciardi; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.) (*Gerald Hatch Faculty Fellow*)

Mihriban Pekguleryuz; B.Sc., M.Eng.(Flor.), Ph.D.(McG.)

Assistant Professors

Kirk Bevan; Ph.D.(Purd.)

Marta Cerruti; B.Sc., Ph.D., Laurea in Chemistry(Torino)

In-Ho Jung; B.Sc., M.Sc.(POSTECH), Ph.D.(École Poly., Montr.) (*Gerald Hatch Faculty Fellow*) (*William Dawson Scholar*)

Nathaniel Quitoriano; B.S.(Calif., Berk.), Ph.D.(MIT)

Jun Song; M.Sc., Ph.D.(Princ.)

Kristian Waters; M.Eng., M.Sc.(UMIST), Ph.D.(Birm.)

Post-Retirement Professor

Michel L. Bilodeau; B.A.Sc.(Montr.), M.Sc.(A.), Ph.D.(McG.), Eng.

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.)

16.11.6.5 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 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 or the equivalent.

16.11.6.6 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.

16.11.6.7 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.

16.11.6.8 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

16.11.6.9 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.

16.11.6.10 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.

16.11.7 Urban Planning

16.11.7.1 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*

16.11.7.2 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 planning practice is as old as the cities themselves, the Urban Planning profession is only about a century old. In the late 19th and early 20th centuries, architects, landscape architects, engineers, government reformers, lawyers, public health specialists, and others joined forces to tackle the serious social and environmental problems of the industrial city. They created new techniques and institutions to improve living conditions and decision-making processes, with an eye to improving cities in terms of health, safety, efficiency, equity, beauty, identity, etc. Today, people who enter the profession come from diverse backgrounds as well, including the design professions, engineering and applied sciences, environmental and social studies, and other fields. Their challenge is to reinvent tools and procedures to meet new challenges in making cities socially, economically and environmentally sustainable. A key feature of planning education is learning to view issues in a multidisciplinary way, to manage processes of collaboration and of conflict, and to generate equitable and efficient solutions to complex problems of urban development.

McGill University was the first institution in Canada to offer a full-time planning program starting in 1947. In 1972, the School of Urban Planning was created as a separate academic unit within the Faculty of Engineering. It shares a heritage building with the School of Architecture, right on the main open space of McGill's Downtown campus. The primary objective of the Master of Urban Planning program is to educate professional urban planners for leadership in the public, private, and not-for-profit sectors. This happens in large part through project-based learning. The program also puts great emphasis on students doing policy-relevant research. The School also 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 to understand urban challenges and to formulate policies and plans to meet them. Community and professional partners are located in Montreal, in Quebec, elsewhere in Canada, and overseas.

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 16.11.7.5: 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 16.11.7.6: Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Transportation Planning (66 credits)

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 16.11.7.7: 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 will be 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.

16.11.7.3 Urban Planning Admission Requirements and Application Procedures

16.11.7.3.1 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.

16.11.7.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

16.11.7.3.2.1 Additional Requirements

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

- Personal Statement (one to two pages)
- Curriculum Vitae
- Portfolio: For architects and landscape architects only, a portfolio containing at least five (5) examples of design work accomplished in school and in practice demonstrating creativity and imagination. Portfolios are not to exceed 8½" x 11" (or A4) in size.
- 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*.

16.11.7.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

16.11.7.4 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.)

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.(C'nell), Ph.D.(Calif., Berk.)

David F. Brown; B.A.(Bishop's), M.U.P.(McG.), Ph.D.(Sheff.)

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.)

Associate Professors

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.)

Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.)

Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

Guest Lecturers

Suzanne Doucet, Paul LeCavalier, Denis Lévesque, James McGregor, Pierre Morissette, Larry Sherman, Martin Wexler

16.11.7.5 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)

URBP 609	(3)	Planning Graphics
URBP 612	(3)	History and Theory of Planning
URBP 622	(6)	Planning Studio 1
URBP 623	(3)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 633	(3)	Planning Methods
URBP 635	(3)	Planning Law

Required Internship (6 credits)

URBP 628	(6)	Practical Experience

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.

ARCH 515	(3)	Sustainable Design
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing

ARCH 529	(3)	Housing Theory
CIVE 540	(3)	Urban Transportation Planning
CIVE 561	(3)	Urban Activity, Air Pollution, and Health
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 507*	(3)	Planning and Infrastructure
URBP 519*	(6)	Sustainable Development Plans
URBP 520*	(3)	Globalization: Planning and Change
URBP 530	(3)	Urban Environmental Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3
URBP 602	(3)	Urban Design Seminar 1: Foundations
URBP 607	(3)	Reading Course: Urban Planning
URBP 608	(3)	Advanced GIS Applications
URBP 616	(3)	Selected Topics 1
URBP 617	(3)	Selected Topics 2
URBP 618	(3)	Selected Topics 3
URBP 619	(3)	Land Use and Transportation Planning
URBP 620	(3)	Transportation Economics
URBP 625	(2)	Principles and Practice 2
URBP 626	(2)	Principles and Practice 3
URBP 629	(3)	Cities in a Globalizing World
URBP 634*	(3)	Planning Water Resources in Barbados
URBP 651	(3)	Redesigning Suburban Space

* Courses open only to students enrolled in the Barbados Field Study Semester.

Students may elect to complete a Field Study Semester in Barbados during the Fall term of their second year in the program. With this option, URBP 519 is substituted for URBP 624. Coursework must include URBP 507, URBP 520, and URBP 634. All other requirements for the M.U.P. degree apply.

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.

16.11.7.6 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Transportation Planning (66 credits)

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)

URBP 630	(3)	Supervised Research Project 1

URBP 631	(6)	Supervised Research Project 2
URBP 632	(6)	Supervised Research Project 3

Required Internship (6 credits)

URBP 628	(6)	Practical Experience

Required Courses (33 credits)

URBP 505	(3)	Geographic Information Systems
URBP 609	(3)	Planning Graphics
URBP 612	(3)	History and Theory of Planning
URBP 619	(3)	Land Use and Transportation Planning
URBP 622	(6)	Planning Studio 1
URBP 623	(3)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 633	(3)	Planning Methods
URBP 635	(3)	Planning Law

Complementary Courses

6-12 credits from the following:

CIVE 540	(3)	Urban Transportation Planning
CIVE 561	(3)	Urban Activity, Air Pollution, and Health
CIVE 637	(4)	Discrete Choice Modeling in Transportation
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 536	(1)	Transportation Seminar 1
URBP 537	(1)	Transportation Seminar 2
URBP 538	(1)	Transportation Seminar 3
URBP 608	(3)	Advanced GIS Applications
URBP 620	(3)	Transportation Economics

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.

16.11.7.7 Master of Urban Planning (M.U.P.); Urban Planning (Non-Thesis) — Urban Design (66 credits)

Program not offered in 2013-2014.

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)

URBP 630	(3)	Supervised Research Project 1
URBP 631	(6)	Supervised Research Project 2
URBP 632	(6)	Supervised Research Project 3

Required Internship (6 credits)

URBP 628	(6)	Practical Experience

Required Courses (33 credits)

URBP 602	(3)	Urban Design Seminar 1: Foundations
URBP 604	(3)	Urban Design Seminar 2: Advanced Topics
URBP 609	(3)	Planning Graphics
URBP 612	(3)	History and Theory of Planning
URBP 622	(6)	Planning Studio 1
URBP 623	(3)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 633	(3)	Planning Methods
URBP 635	(3)	Planning Law

Complementary Courses

9-12 credits from the following including at least one ARCH course and one URBP course:

ARCH 515	(3)	Sustainable Design
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 521	(3)	Structure of Cities
ARCH 527	(3)	Civic Design
ARCH 561	(3)	Affordable Housing Seminar 1
ARCH 562	(3)	Affordable Housing Seminar 2
ARCH 566	(3)	Cultural Landscapes Seminar
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Environmental Planning
URBP 616	(3)	Selected Topics 1
URBP 619	(3)	Land Use and Transportation Planning

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.

ARCH 515	(3)	Sustainable Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 550	(3)	Urban Planning and Development
URBP 501	(2)	Principles and Practice 1

URBP 505	(3)	Geographic Information Systems
URBP 530	(3)	Urban Environmental Planning
URBP 607	(3)	Reading Course: Urban Planning
URBP 617	(3)	Selected Topics 2
URBP 618	(3)	Selected Topics 3
URBP 619	(3)	Land Use and Transportation Planning
URBP 625	(2)	Principles and Practice 2
URBP 626	(2)	Principles and Practice 3
URBP 629	(3)	Cities in a Globalizing World

17 Faculty of Law

17.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

17.4 Graduate Studies at a Glance

17.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.

Faculty of Arts	Degrees Available
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.

Faculty of Medicine	Degrees Available
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

17.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

17.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics

Master of Arts (M.A.)		
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)

Master of Library and Information Studies (M.L.I.S.)

The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.

Master of Library and Information Studies (M.L.I.S.)		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A

Master of Science (M.Sc.)

Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

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.

Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

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.

Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

17.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

17.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science

Doctor of Philosophy (Ph.D.)		
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

17.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

17.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)

Graduate Diplomas	
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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 studies must be approved by GPS before registration. Double counting is not permitted.

17.6 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 permits. 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.

17.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

17.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

17.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

17.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

17.6.4 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* 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*.

17.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least "Pass."
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

17.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

17.6.7 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.

17.6.8 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.

17.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

17.6.10 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.

Revised – Council of February 9, 2004.

17.6.11 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.

17.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies

(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

17.11.1 Law

17.11.1.1 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

17.11.1.2 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 17.11.1.5: 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 17.11.1.6: 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 17.11.1.7: 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 17.11.1.8: 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 17.11.1.9: 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 17.11.1.10: 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 17.11.1.11: 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 17.11.1.12: 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 17.11.1.13: 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 17.11.1.14: 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 17.11.1.15: 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 17.11.1.16: 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

section 17.11.1.16: Doctor of Civil Law (D.C.L.); Air and Space Law

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 17.11.1.17: 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 17.11.1.18: 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 17.11.1.19: 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.

17.11.1.3 Law Admission Requirements and Application Procedures

17.11.1.3.1 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 consult the Faculty website *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*, and telephone 514-398-6635.

17.11.1.3.1.1 Language Requirement

Graduate-level courses are generally offered in English, and English-language abilities must be demonstrated for admission. In order to communicate fully with all law students at McGill, and to understand all course materials, the ability to speak and read French is an asset. At McGill's Faculty of Law, all students may choose to write essays, examinations, and theses in English or French.

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, ESOL, or EDEXCEL offices. An institutional version of the TOEFL is not acceptable. For an application to be considered, a TOEFL, IELTS, MELAB, ESOL, or EDEXCEL test result, McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication must be available.

Generally, successful applicants to our LL.M. and D.C.L. programs typically report scores of at least 100 on the TOEFL (iBT), 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 ESOL (CAE), a grade of “B” (Good) or higher on the ESOL (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).

In all programs, non-Canadian applicants whose mother tongue is French must achieve a minimum TOEFL score of 567 (86 on the Internet-based test, with each component score not less than 20) or an IELTS score of 7.0 overall band. This is because McGill students can write essays, examinations and theses in French, even where the course is taught in English. Note that the majority of courses in Graduate Programs in Law are taught in English.

For information about the TOEFL, and to register to take the test, see *www.ets.org/toefl*. For information about the IELTS, see *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 institution to Graduate Programs in Law. For the TOEFL, McGill’s institutional code is **0935** and Law’s departmental code is **03**. These codes must be provided to TOEFL when requesting a test report form. For the IELTS, applicants must ask for an official report to be sent to Graduate Programs in Law at the Graduate Programs’ departmental address. These tests must be taken sufficiently early for results to reach McGill no later than **January 15** of the year of admission. Application files must be completed by that date to be considered.

French: The ability to speak or read French is an asset but not a necessity. 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 should indicate their knowledge of French on the admissions questionnaire; they will be notified if French is essential to the area of study.

17.11.1.3.1.2 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:

a. the candidate has completed a graduate law degree with thesis at McGill or at another university, and
b. the Graduate Admissions Committee is satisfied that the quality of his or her previous research is sufficient to justify admission to a doctoral program.

Review of the completed master's thesis is normally part of the admission decision–making process. Exceptionally, a candidate with a non-thesis master's degree with an outstanding file may be admitted to the doctoral program.

17.11.1.3.1.3 Master's Degrees

Candidates for admission to the LL.M. program must hold a Bachelor's degree (or equivalent) in Law (such as LL.B. or J.D.), with at least Upper Second Class honours or the equivalent of 3.0/4.0 cumulative grade point average. However, this standing does not guarantee admission; the Graduate Admissions Committee weighs the entire file, including the applicant's references and the quality of the research proposal.

Furthermore, in the case of thesis programs, the Committee must consider the availability of a supervisor. If a supervisor is not available in the applicant's preferred field of study, the applicant may be refused admission or else offered admission pending a change of field of study.

17.11.1.3.1.4 LL.M. Interdisciplinary Options in Environment and European Studies

Students who apply for admission to the LL.M. Thesis or Non-Thesis program at the Faculty of Law may specify an interest in these options.

17.11.1.3.1.5 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 the Bioethics section of this publication, or contact the Chair, Master's Specialization in Bioethics, Biomedical Ethics Unit, 3647 Peel Street, Montreal, QC, H3A 1W9. Telephone: 514-398-6980; fax: 514-398-8349; email: *kathleen.glass@mcgill.ca*.

17.11.1.3.1.6 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.

Graduate Certificate in Air and Space Law

Candidates desiring a Graduate Certificate in Air and Space Law who do not hold a law degree may be admitted if they have earned an undergraduate university degree in another discipline and possess sufficient professional experience to compensate for the lack of a law degree (as determined by the Graduate Admissions Committee).

The Graduate Certificate is awarded after one full-time term of residence in the Faculty and upon completion of a minimum of 15 academic credits of law courses. Those credits must include the three Air and Space law courses obligatory for master's students (**ASPL 633** Public International Air Law, **ASPL 636** Private International Air Law, and **ASPL 637** Space Law: General Principles), which are all offered in the Fall term. Students may take courses beyond the minimum of 15 credits, and these additional courses may be non-law courses.

Graduate Certificate in Comparative Law

The Graduate Certificate is awarded after one full-time term of residence in the Faculty and upon completion of a minimum of 15 course credits. In every case, the program is structured to meet individual needs and must be approved by the Associate Dean (Graduate Studies).

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 *www.mcgill.ca/internationalstudents* for assistance.

17.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

17.11.1.3.2.1 Additional Requirements

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

- Statement of Academic Program. For more information, consult *www.mcgill.ca/law-admissions/graduates/admissions/deadlines#STATEMENT*.
- Referee's Report Forms from **academic referees**. For more information, consult *www.mcgill.ca/law-admissions/graduates/admissions/deadlines/#LETTERS*.
- Curriculum Vitae
- Recent photograph
- Master's thesis (D.C.L. applicants only)

17.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: N/A
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

The **application deadline** to all graduate law programs (LL.M., D.C.L., Graduate Certificates) is **January 15**. Although McGill continues to accept applications until June 30 (April 30 for international applicants) for the Fall term, **the Faculty of Law will not consider applications received on or after January 16**.

McGill Graduate Law offers **Fall term admission only**; the Faculty is not willing to consider applications for Winter and Summer. Applications submitted for the Winter and Summer terms will be cancelled by the Faculty of Law WITHOUT reimbursement of the application fee.

Note: The application fee remains non-refundable.

17.11.1.4 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.

17.11.1.4.1 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)

Research Seminars (CMPL 508 & CMPL 509)

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)

17.11.1.4.2 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)

Courses offered within this concentration may include:

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)

Research Seminars (CMPL 508 & CMPL 509)

Resolution of International Disputes (CMPL 533)

Securities Regulation (BUS2 504)

17.11.1.4.3 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)

Discrimination and the Law (CMPL 575)

Human Rights & Cultural Diversity (CMPL 603)

International Criminal Law (PUB2 502)

International Humanitarian Law (CMPL 565)

International Law of Human Rights (CMPL 571)

Law & Psychiatry (PUB2 500)

Research Seminars (CMPL 508 & CMPL 509)

Social Diversity and Law (CMPL 511)

17.11.1.4.4 Regulation, Technology and Society

This concentration focuses on the comparative and interdisciplinary study of legal regulation in areas of rapid technological change. It encourages critical reflection on notions of the public interest and its protection in areas as diverse as the biomedical sciences, the environment, the growth of computer networks, and the commercial exploitation of space.

Courses offered within this concentration may include:

Communications Law (CMPL 577)

Comparative Medical Law (CMPL 551)

Computers and the Law (CMPL 578)

Environment and the Law (CMPL 580)

Government Control of Business (CMPL 574)

Intellectual 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)

Research Seminars (CMPL 508 & CMPL 509)

Trade Regulation (CMPL 521)

17.11.1.5 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).

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 (8 credits)

CMPL 610	(4)	Legal Research Methodology
CMPL 641	(4)	Theoretical Approaches to Law

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

17.11.1.6 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 692	(6)	M.Sc. Thesis Research Progress Report
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 543	(3)	Seminar: Medical Ethics
RELG 571	(3)	Religion and Medicine

8-9 credits at the 500 level or above of Faculty of Law courses or Bioethics courses.

17.11.1.7 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).

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 618	(2)	Master's Thesis 7

Required Courses (10 credits)

CMPL 610	(4)	Legal Research Methodology
ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (6 credits)

3-6 credits chosen from:

CMPL 546	(3)	International Environmental Law and Politics
CMPL 580	(3)	Environment and the Law

0-3 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 another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

17.11.1.8 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).

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 (7 credits)

CMPL 610	(4)	Legal Research Methodology
LAWG 659	(3)	Interdisciplinary Seminar in European Studies

Complementary Courses (9 credits)

CMPL 536	(3)	European Union Law 1
CMPL 537	(2)	European Union Law 2

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:

CMPL 600	(4)	Legal Traditions
CMPL 641	(4)	Theoretical Approaches to Law

17.11.1.9 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.

CMPL 655	(15)	Research Project 1

Required Courses (8 credits)

CMPL 610	(4)	Legal Research Methodology
CMPL 641	(4)	Theoretical Approaches to Law

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:

CMPL 656	(2)	Research Project 2
CMPL 657	(1)	Research Project 3

17.11.1.10 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.

CMPL 655	(15)	Research Project 1
CMPL 656	(2)	Research Project 2

Required Courses (10 credits)

CMPL 610	(4)	Legal Research Methodology
ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (18 credits)

15 credits chosen from:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 546	(3)	International Environmental Law and Politics
CMPL 580	(3)	Environment and the Law

and/or other Faculty of Law offerings.

3 credits chosen from:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

17.11.1.11 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).

ASPL 690	(4)	Master's Thesis 1
ASPL 691	(3)	Master's Thesis 2
ASPL 692	(6)	Master's Thesis 3
ASPL 693	(12)	Master's Thesis 4

Required Courses (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 (11 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

7 credits at the 500 level or higher, chosen from among Faculty offerings (including ASPL offerings).

17.11.1.12 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.

ASPL 655	(15)	Research Project 1
ASPL 656	(2)	Research Project 2
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).

17.11.1.13 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:

CMPL 618	(2)	Master's Thesis 7
CMPL 619	(1)	Master's Thesis 8

17.11.1.14 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.

CMPL 655	(15)	Research Project 1

Required Courses (12 credits)

CMPL 600	(4)	Legal Traditions
CMPL 610	(4)	Legal Research Methodology
CMPL 641	(4)	Theoretical Approaches to Law

Complementary Courses (18 credits)

The remaining 18 credits (or fewer if more credits are earned for the research project) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Research Project Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

CMPL 656	(2)	Research Project 2
CMPL 657	(1)	Research Project 3

17.11.1.15 Doctor of Civil Law (D.C.L.)

The Doctor of Civil Law (D.C.L.) program allows for the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member. Doctoral candidates normally plan to pursue an academic career and develop their approach to pedagogy, research, and writing while at McGill.

D.C.L. 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/dcl/.

The degree will be awarded, at the earliest, after the completion of three years of residence in the Faculty. In the case of a candidate holding an LL.M. from McGill or an equivalent degree from another university, the residency requirement may be reduced to two years of study beyond the Master's degree, with the approval of the Graduate and Postdoctoral Studies Office, upon recommendation of the Graduate Studies Committee of the Faculty of Law.

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. Its form must be suitable for publication. The thesis must be submitted within four years of completion of the residency requirement.

Comprehensive - Required

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

LAWG 701	(0)	Comprehensive Exam - Law

Required Course

CMPL 641	(4)	Theoretical Approaches to Law

Complementary Course

Students are encouraged to take:

CMPL 610	(4)	Legal Research Methodology

17.11.1.16 Doctor of Civil Law (D.C.L.); Air and Space Law

The Institute of Air and Space Law offers a D.C.L. program in Air and Space Law, which allows for the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member. Doctoral candidates normally plan to pursue an academic career and develop their approach to pedagogy, research, and writing while at McGill.

The degree will be awarded, at the earliest, after the completion of three years of residence in the Faculty. In the case of a candidate holding an LL.M. from McGill or an equivalent degree from another university, the residency requirement may be reduced to two years of study beyond the Master's degree, with the approval of the Graduate and Postdoctoral Studies Office, upon recommendation of the Graduate Studies Committee of the Faculty of Law.

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. Its form must be suitable for publication. The thesis must be submitted within four years of completion of the residency requirement.

Comprehensive - Required

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

ASPL 701	(0)	Comprehensive - Air/Space Law

Complementary Courses

Students are encouraged to take:

CMPL 610	(4)	Legal Research Methodology
CMPL 641	(4)	Theoretical Approaches to Law

17.11.1.17 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 for the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member. Doctoral candidates normally plan to pursue an academic career and develop their approach to pedagogy, research, and writing while at McGill.

D.C.L. candidates in the ICL 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/dcl/.

The degree will be awarded, at the earliest, after the completion of three years of residence in the Faculty. In the case of a candidate holding an LL.M. from McGill or an equivalent degree from another university, the residency requirement may be reduced to two years of study beyond the Master's degree, with the approval of the Graduate and Postdoctoral Studies Office, upon recommendation of the Graduate Studies Committee of the Faculty of Law.

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. Its form must be suitable for publication. The thesis must be submitted within four years of completion of the residency requirement.

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 Course

CMPL 641	(4)	Theoretical Approaches to Law

Complementary Course

Students are encouraged to take:

CMPL 610	(4)	Legal Research Methodology

17.11.1.18 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)

ASPL 633	(3)	Public International Air Law
ASPL 636	(3)	Private International Air Law
ASPL 637	(3)	Space Law: General Principles

Complementary Courses (6 credits)

6 additional credits of 500-level or higher law courses.

17.11.1.19 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.

18 McGill School of Environment

18.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

18.4 Graduate Studies at a Glance

18.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.

Faculty of Engineering	Degrees Available
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.

Faculty of Science	Degrees Available
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

18.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

18.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
		Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis)
		Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis)
		Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences

Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment

Master of Science (M.Sc.)

Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

18.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

18.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.		
The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music

Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education

Doctor of Philosophy (Ph.D.)		
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine

***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Urban Planning	N/A	Faculty of Engineering

18.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

18.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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 studies must be approved by GPS before registration. Double counting is not permitted.

18.6 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 permits. 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.

18.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

18.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

18.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

18.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

18.6.4 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* 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*.

18.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*

Competency in English		
86 overall (no less than 20 in each of the four component scores) N.B. an institutional version of the TOEFL is not acceptable.	550	* The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

18.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

18.6.7 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.

18.6.8 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.

18.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

18.6.10 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.

Revised – Council of February 9, 2004.

18.6.11 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.

18.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure

under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

18.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

18.11.1 Environment

18.11.1.1 Location

McGill School of Environment
Downtown Campus
3534 University Street
Montreal, QC H3A 2A7
Canada
Telephone: 514-398-2827
Fax: 514-398-1643

McGill School of Environment
Macdonald Campus
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*

18.11.1.2 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 *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Anthropology > section 12.11.1.7: Master of Arts (M.A.); Anthropology (Thesis) — Environment (48 credits)*

Atmospheric and Oceanic Sciences

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Atmospheric and Oceanic Sciences > section 24.11.1.6: Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)*

Biology

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Biology > section 24.11.2.6: Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Biology > section 24.11.2.11: Doctor of Philosophy (Ph.D.); Biology — Environment*

Bioresource Engineering

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 11.11.3.6: Master of Science (M.Sc.); Bioresource Engineering (Thesis) — Environment (46 credits)*

M.Sc. (Applied) – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 11.11.3.11: Master of Science, Applied (M.Sc.A.); Bioresource Engineering (Non-Thesis) — Environmental Engineering (45 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Bioresource Engineering > section 11.11.3.15: Doctor of Philosophy (Ph.D.); Bioresource Engineering — Environment*

Earth and Planetary Sciences

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Earth and Planetary Sciences > section 24.11.5.6: Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) — Environment (48 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Earth and Planetary Sciences > section 24.11.5.8: Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — Environment*

Entomology

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.7: Master of Science (M.Sc.); Entomology (Thesis) — Environment (46 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.16: Doctor of Philosophy (Ph.D.); Entomology — Environment*

Epidemiology

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Medicine > Graduate > Academic Programs > Epidemiology and Biostatics > section 19.11.6.4.4: Master of Science (M.Sc.); Public Health (Non-Thesis) — Environment (60 credits)*

Geography

M.A. – see *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Geography > section 12.11.9.7: Master of Arts (M.A.); Geography (Thesis) — Environment (45 credits)*

Geography

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Science > Graduate > Academic Programs > Geography > section 24.11.6.6: Master of Science (M.Sc.); Geography (Thesis) — Environment (45 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Geography > section 24.11.6.9: Doctor of Philosophy (Ph.D.); Geography — Environment*

Law

LL.M. – see *Programs, Courses and University Regulations > Faculty of Law > Graduate > Academic Programs > Law > section 17.11.1.7: Master of Laws (LL.M.); Law (Thesis); Environment (45 credits)*

LL.M. (Non-Thesis) – see *Programs, Courses and University Regulations > Faculty of Law > Graduate > Academic Programs > Law > section 17.11.1.10: Master of Laws (LL.M.); Law (Non-Thesis); Environment (45 credits)*

Medicine, Experimental

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Medicine > Graduate > Academic Programs > Medicine, Experimental > section 19.11.11.7: Master of Science (M.Sc.); Experimental Medicine (Thesis) — Environment (45 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Medicine > Graduate > Academic Programs > Medicine, Experimental > section 19.11.11.10: Doctor of Philosophy (Ph.D.); Experimental Medicine — Environment*

Microbiology

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.10: Master of Science (M.Sc.); Microbiology (Thesis) — Environment (46 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.20: Doctor of Philosophy (Ph.D.); Microbiology — Environment*

Parasitology

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Parasitology > section 11.11.8.7: Master of Science (M.Sc.); Parasitology (Thesis) — Environment (46 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Parasitology > section 11.11.8.10: Doctor of Philosophy (Ph.D.); Parasitology — Environment*

Philosophy

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Philosophy > section 12.11.17.7: Doctor of Philosophy (Ph.D.); Philosophy — Environment*

Plant Science

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Plant Science > section 11.11.9.7: Master of Science (M.Sc.); Plant Science (Thesis) — Environment (48 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Plant Science > section 11.11.9.12: Doctor of Philosophy (Ph.D.); Plant Science — Environment*

Renewable Resources

M.Sc. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.12: Master of Science (M.Sc.); Renewable Resources (Thesis) — Environment (46 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Agricultural & Environmental Sciences > Graduate > Academic Programs > Natural Resource Sciences > section 11.11.7.22: Doctor of Philosophy (Ph.D.); Renewable Resources — Environment*

Sociology

M.A. – see *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Sociology > section 12.11.23.7: Master of Arts (M.A.); Sociology (Thesis) — Environment (48 credits)*

Ph.D. – see *Programs, Courses and University Regulations > Faculty of Arts > Graduate > Academic Programs > Sociology > section 12.11.23.17: Doctor of Philosophy (Ph.D.); Sociology — Environment*

18.11.1.3 Environment Admission Requirements and Application Procedures

18.11.1.3.1 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*.

18.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

18.11.1.3.2.1 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*).

18.11.1.3.3 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.

18.11.1.4 Environment Faculty

Director

N.A. Ross; M.A.(Qu.), Ph.D.(McM.)

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*)

J. Cardille; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), Ph.D.(Wisc.) (*joint appt. with Natural Resource Sciences*)

S. De Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.) (*joint appt. with Plant Science*)

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*)

B. Leung; B.Sc.(Br. Col.), Ph.D.(Car.) (*joint appt. with Biology*)

G. Mikkelson; B.A.(Trinity), M.S., Ph.D.(Chic.) (*joint appt. with Philosophy*)

A. Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with Redpath Museum*)

R. Sengupta; B.Sc.(Bom.), M.Sc.(IIT), Ph.D.(S. Illinois) (*joint appt. with Geography*)

R. Sieber; B.Sc.(Mich. St.), M.P.A.(W. Mich.), Ph.D.(Rutg.) (*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*)

E. Bennett; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.) (*joint appt. with Natural Resource Sciences*)

I. Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (*joint appt. with Philosophy*)

N. Kosoy; B.Sc.(Univ. Simon Bolivar, Venezuela), M.Sc.(Kent), M.Sc., Ph.D.(Univ. Autonoma de Barcelona, Spain) (*joint appt. with Natural Resource Sciences*)

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

Chemical Engineering: N. Tufenkji, V. Yargeau

Civil Engineering and Applied Mechanics: S. Gaskin, M. Hatzopoulou, 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

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

Natural Resource Sciences: C. Buddle, B. Cote, J. Fyles, W. Hendershot, G. Hickey, C. Solomon, I. Strachan, P. Thomassin, J. Whalen, T. Wheeler

Parasitology, Institute of: M. Scott

Pathology: B. Case

Philosophy: P. Buckley

Plant Science: C. Begg, P. Dutilleul, D. Smith, M. Waterway

Political Science: P. Oxhorn

Redpath Museum: D.M. Green

19 Faculty of Medicine

19.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

19.2 Graduate and Postdoctoral Studies

19.2.1 Administrative Officers

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

19.2.2 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.

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 2013–2014

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

19.4 Graduate Studies at a Glance

19.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma

Faculty of Education	Degrees Available
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

19.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study.

Degree		Prerequisites
		Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

19.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A

Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A

Master of Science (M.Sc.)		
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

19.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

19.4.3.1 Doctoral Degree Programs and Specializations

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

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		

The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.

The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).

Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts

Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

19.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

19.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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.

19.5.2 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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*.

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/apply/prepare#program* 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/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 studies must be approved by GPS before registration. Double counting is not permitted.

19.6 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 permits. 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.

19.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

19.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

19.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

19.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

19.6.4 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* 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*.

19.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

19.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

19.6.7 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.

19.6.8 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.

19.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

19.6.10 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.

Revised – Council of February 9, 2004.

19.6.11 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.

19.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

19.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

19.11.1 Anatomy and Cell Biology

19.11.1.1 Location

Department of Anatomy and Cell Biology
Strathcona Anatomy and Dentistry Building
3640 University Street, Room 1/60
Montreal, QC H3A 0C7
Canada

Telephone: 514-398-6335
Fax: 514-398-5047
Website: *www.mcgill.ca/anatomy*

19.11.1.2 About Anatomy and Cell Biology

In addition to laboratory-specific activities, students will attend weekly seminars presented by nationally and internationally recognized researchers (see *www.mcgill.ca/anatomy/seminar-series*). Students will also present their results once a year to other students in the program in the Research in Progress seminar series.

Current research projects include:

- cell biology of secretion
- cell biology of endocytosis
- signal transduction of cell receptors for growth factors and hormones
- synthesis and migration of glycoproteins
- subcomponents of the Golgi apparatus and their function
- biogenesis and function of lysosomes
- cell turnover in various tissues
- control of cell growth and proliferation
- molecular biology of extracellular matrix
- structure, composition, and function of basement membranes and connective tissue microfibrils
- cell and microfibrils
- cell and molecular biology of spermatogenesis
- genetic expression of proteins in the formation of cytoskeletal components of spermatozoa
- role of endocytosis and secretion by epididymal cells in sperm maturation
- molecular biology of Sertoli cell secretions and their interaction with germ cells
- synchronization of sperm production
- transferrin, transferrin receptors, and iron in germinal cells
- differentiation of B lymphocytes in bone marrow in relation to mechanisms of humoral immunity, immunodeficiency states, and B cell neoplasias
- control mechanisms and cytokines in B lymphopoiesis
- in situ organization and stromal cell-interactions of B lineage precursor cells in bone marrow
- microenvironmental regulation of hemopoiesis
- differentiation and regulation of cells mediating natural tumour immunosurveillance
- tumour cell biology
- cell and molecular biology of the formation of dental enamel, dentin, and bone
- structure of organic matrices and inorganic crystals of dental enamel
- role of hormones and their binding sites with calcified tissues
- secretion and degradation of the proteins of enamel matrix, hypothalamo-pituitary function and gonadotropin patterns in ovarian follicular development
- polycystic ovarian disease
- computer-assisted modelling of morphometric and kinetic data
- cell biology and molecular genetics of aging
- senescence and cell cycle-specific genes and their products
- cryo-electron microscopy

The **Human Systems Biology Stream** is offered as a complementary stream to the existing M.Sc. and Ph.D. programs entailing a multidisciplinary approach to achieving an M.Sc. and Ph.D. 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.

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: 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. Techniques used by Department members include:

- labelling with radioisotopes and other tracers

- radioautography
- immunocytochemistry
- histochemistry
- cryo-immune microscopy
- fluorescence microscopy
- high-resolution electron microscopy
- scanning electron microscopy
- backscattered electron imaging
- confocal microscopy
- 3D cryo-electron microscopy
- microinjection
- video-microscopy in living cells
- X-ray microanalysis
- electron diffraction
- freeze-fracture replication
- computer reconstruction and quantitation
- chromatography
- subcellular fractionation
- recombinant DNA technology
- in situ hybridization
- tissue grafting
- cell and tissue culture
- mutant and transgenic mice
- hybridomas
- monoclonal antibodies

The Department has one of the largest and best-equipped electron microscope facilities in the world. Currently in use are four modern electron microscopes, including 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.

section 19.11.1.5: 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 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 19.11.1.6: 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.

19.11.1.3 Anatomy and Cell Biology Admission Requirements and Application Procedures

19.11.1.3.1 Admission Requirements

M.Sc. and Ph.D. Programs

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 on 4.0 as indicated in the general guidelines set up by GPS at McGill.
3. Students must follow the guidelines for English Language Proficiency at *www.mcgill.ca/gradapplicants/apply/prepare/international/proficiency*.
4. M.Sc. and Ph.D. students must be supported financially, at a minimum of $15,000 and $17,000 respectively, per year.

Graduate students are also expected to apply for the various internal and external fellowships. Detailed information is available at *www.mcgill.ca/anatomy/graduate/fellowships*. Graduate students are responsible for the payment of tuition fees to McGill University. Detailed information about these can be found at *www.mcgill.ca/student-accounts/tuition-charges/fallwinter-term-tuition-and-fees/graduate-fees*. For international students registered in the M.Sc. and Ph.D. programs, differential fee waivers up to $5,000 will be allocated to a maximum of eight students through the Department of Anatomy and Cell Biology, for the first year, with a possibility of renewal.

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 11.6.3: Application Procedures* for detailed application procedures.

Application for admission to graduate studies for the degrees of M.Sc. or Ph.D. in Cell Biology and Anatomy should be made to the Chair of Graduate Studies, Department of Anatomy and Cell Biology.

Program guidelines are detailed at *www.mcgill.ca/anatomy/graduate*.

All applicants must first make arrangements with a faculty member of the Department for acceptance into his/her laboratory to carry out the thesis research (*www.mcgill.ca/anatomy/graduate/appproc*).

19.11.1.3.2.1 Additional Requirements

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

- Agreement of a faculty member to act as Thesis Supervisor

19.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 15	Fall: March 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Summer term admission will not be considered.

19.11.1.4 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.)

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*)

James R. Brawer; B.S.(Tufts), Ph.D.(Harv.)

Miguel Burnier; M.D., M.Sc., Ph.D.(Brazil) (*joint appt. with Ophthalmology*)

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.)

Professors

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.)

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.)

M.F. Lalli; B.Sc., M.Sc.(Bowling Green), Ph.D.(McG.)

Craig Mandato; B.Sc., Ph.D.(Wat.)

John F. Presley; B.A., Ph.D.(Texas)

Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich) (*joint appt. with Earth and Planetary Sciences*)

Assistant Professors

Fiona Bedford; B.Sc.(Birm.), Ph.D.(Lond.)

Justin Kollman; Ph.D.(Calif.-San Diego)

Isabelle Rouiller; Ph.D.(UK)

Associate Members

John J.M. Bergeron; B.Sc.(McG.), D.Phil.(Oxf.)

Albert Berghuis (*Biochemistry*)

Colin Chalk (*Neurology and Neurosurgery*)

Jean-François Cloutier (*Neurology and Neurosurgery*)

Claudio Cuello (*Pharmacology and Therapeutics*)

Giovanni DiBattista (*Medicine*)

Alyson Fournier (*Neurology and Neurosurgery*)

Janet Henderson (*Medicine*)

Robert Scott Kiss (*Biochemistry*)

Bartha Knoppers (*Human Genetics*)

Svetlana Komarova (*Dentistry*)

Stephane Laporte (*Medicine*)

Andréa Leblanc (*Neurology and Neurosurgery*)

Tommy Nilsson (*Medicine*)

Christian Rocheleau (*Medicine*)

Edward S. Ruthazer (*Neurology and Neurosurgery*)

Michael Sacher (*Biology*)

Philippe Seguela (*Neurology and Neurosurgery*)

Peter Siegel (*Medicine and Biochemistry*)

Thomas Stroh (*Neurology and Neurosurgery*)

Associate Members

Jacalyn Vogel (*Biology*)

Xiang-Jiao Yang (*Medicine*)

Adjunct Professors

Michel Cayouette; Ph.D.(Laval)

Frédéric Charron; B.Sc.(Montr.), Ph.D.(McG.)

Miroslaw Cygler; M.Sc., Ph.D.(Lodz, Poland)

Daniel Cyr; B.Sc., M.Sc.(C'dia), Ph.D.(Manit.)

Michel Desjardins; M.Sc., Ph.D.(Montr.)

Jacques Drouin; B.Sc., D.Sc.(Laval)

David Hipfner; B.Sc., Ph.D.(Qu.)

Artur Kania; Ph.D.(Baylor)

André Nantel; B.Sc., M.Sc.(Laval), Ph.D.(Chapel Hill)

Alexei Pshezhetsky; Ph.D.(Russia)

Joseph Schrag; M.Sc., Ph.D.(Ill.)

Atilla Sik; M.Sc., Ph.D.(Hungary)

Faculty Lecturer

Ayman Behiery; M.B., Ch.B.(Cairo)

19.11.1.5 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
BMDE 519	(3)	Biomedical Signals and Systems
BTEC 501	(3)	Bioinformatics
COMP 564	(3)	Computational Gene Regulation
COMP 680	(4)	Mining Biological Sequences
EXMD 602	(3)	Techniques in Molecular Genetics
MIMM 613	(3)	Current Topics 1
MIMM 614	(3)	Current Topics 2
MIMM 615	(3)	Current Topics 3

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.

19.11.1.6 Doctor of Philosophy (Ph.D.); Cell Biology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

ANAT 690D1	(3)	Cell and Developmental Biology
ANAT 690D2	(3)	Cell and Developmental Biology
ANAT 695	(3)	Seminars in Cell Biology 1
ANAT 696	(3)	Seminars in Cell Biology 2
ANAT 697	(3)	Seminars in Cell Biology 3
ANAT 701	(0)	Ph.D. Comprehensive Examination

19.11.2 Biochemistry

19.11.2.1 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*
Website: *www.mcgill.ca/biochemistry/graduate-studies-2/chemicalbiology*
Website: *www.mcgill.ca/biochemistry/graduate-studies-2/bioinformatics*

19.11.2.2 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*), and Structural Biology (*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 19.11.2.5: 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 19.11.2.6: 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 19.11.2.7: 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 19.11.2.8: 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 19.11.2.9: 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 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 19.11.2.10: 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.

19.11.2.3 Biochemistry Admission Requirements and Application Procedures

19.11.2.3.1 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.

19.11.2.3.2 Application Procedures

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

See *section 11.6.3: 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*.

19.11.2.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement
- Agreement of a faculty member to act as Thesis Supervisor and to provide adequate financial support
- Acceptance by a Chemical Biology research director (for Chemical Biology option only)

19.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: N/A
Winter: Oct. 15	Winter: Sept. 15	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

19.11.2.4 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.(C'nell)

Edward A. Meighen; B.Sc.(Alta.), Ph.D.(Calif., Berk.)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

Theodore L. Sourkes; M.Sc.(McG.), Ph.D.(C'nell), F.R.S.C.

Clifford P. Stanners; B.Sc.(McM.), M.A., Ph.D.(Tor.)

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*)

Professors

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*)

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*)

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*)

Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.) (*Canada Research Chair in Molecular Chaperones*)

Assistant Professors

Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)

Josée Dostie; B.Sc.(Sher.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur Boursier du FRSQ*)

Sidong Huang; B.A.(Boston), Ph.D.(Calif.)

Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale)

Julie St-Pierre; B.Sc., M.Sc.(Laval), Ph.D.(Camb.)

Jose G. Teodoro; B.Sc.(W. Ont.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur Boursier du FRSQ*)

Associate Members

Karine Auclair (*Chemistry*)

Edward A. Fon (*Neurology and Neurosurgery*)

Jacques Genest (*Dept. of Medicine*)

Matthias Götte (*Microbiology and Immunology*)

Michael Hallett (*McGill Centre for Bioinformatics*)

Qutayba Hamid (*Meakins-Christie Labs*)

Robert S. Kiss (*Dept. of Medicine*)

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 (*Dept. of Medicine*)

Youla S. Tsantrizos (*Dept. of Chemistry*),

Bernard Turcotte (*Dept. of Medicine, Goodman Cancer Ctr.*)

Simon Wing (*Dept. of Medicine*)

Associate Members

Xiang-Jiao Yang (*Mol. Oncol., RVH*)

Adjunct Professors

Philip Awadalla (*Montr.*)

Mirek Cygler (*NRC/BRI*)

Jacques Drouin (*Clin. Res. Inst.*)

Anny Fortin (*Dafra Pharma Res. and Deve. Bvba*)

Tarik Möröy (*IRCM*)

Enrico Purisima (*NRC/BRI*)

René Roy (*PharmaQAM*)

19.11.2.5 Master of Science (M.Sc.); Biochemistry (Thesis) (45 credits)

Thesis Courses (36 credits)

BIOC 697	(9)	Thesis Research 1
BIOC 698	(12)	Thesis Research 2
BIOC 699	(15)	Thesis Research 3

Required Course (3 credits)

BIOC 696	(3)	Seminars in Biochemistry

Complementary Courses* (6 credits)

At least 3 credits must be chosen from the following:

BIOC 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)	Structural 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 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.

19.11.2.6 Master of Science (M.Sc.); Biochemistry (Thesis) — Chemical Biology (47 credits)

Thesis Courses (33 credits)

BIOC 695	(6)	Thesis Research 1 (Chemical - Biology)
BIOC 698	(12)	Thesis Research 2

BIOC 699	(15)	Thesis Research 3

Required Course (3 credits)

BIOC 696	(3)	Seminars in Biochemistry

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)	Structural 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.

19.11.2.7 Master of Science (M.Sc.); Biochemistry (Thesis) — Bioinformatics (45 credits)

Thesis Courses (30 credits)

BIOC 694	(3)	Thesis Research 4
BIOC 698	(12)	Thesis Research 2
BIOC 699	(15)	Thesis Research 3

Required Courses (6 credits)

BIOC 696	(3)	Seminars in Biochemistry
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses* (9 credits)

3 credits to be chosen from the following courses:

BIOC 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)	Structural Biology and Proteomics
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus 6 credits from the following courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

19.11.2.8 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)

BIOC 696*	(3)	Seminars in Biochemistry
BIOC 701**	(0)	Research Seminar 1
BIOC 702**	(0)	Ph.D. Thesis Proposal
BIOC 703**	(0)	Research Seminar 2

*Students promoted directly from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level.

** NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 in the third term after admission to the program, BIOC 702 in the fifth or sixth term, and BIOC 703 approximately six months prior to submission of the Ph.D. thesis.

Complementary Courses*** (6 credits)

At least 3 credits selected from:

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)	Structural 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 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.

19.11.2.9 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)

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
BIOC 696*	(3)	Seminars in Biochemistry
BIOC 701**	(0)	Research Seminar 1
BIOC 702**	(0)	Ph.D. Thesis Proposal
BIOC 703**	(0)	Research Seminar 2

* 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:

CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
PHAR 503	(3)	Drug Discovery and Development 1

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)	Structural 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 9 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.

19.11.2.10 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)

BIOC 696*	(3)	Seminars in Biochemistry
BIOC 701**	(0)	Research Seminar 1
BIOC 702**	(0)	Ph.D. Thesis Proposal
BIOC 703**	(0)	Research Seminar 2
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

* 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:

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)	Structural Biology and Proteomics
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus 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

*** 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.

19.11.3 Bioethics

19.11.3.1 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*

19.11.3.2 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 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.

19.11.3.3 Bioethics Admission Requirements and Application Procedures

19.11.3.3.1 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.

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 11.6.3: 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.

Applicants must satisfy the admission criteria for their chosen discipline and those of the Bioethics Unit, which administers the program and teaches the core courses (see *www.mcgill.ca/biomedicalethicsunit/masters/apply*). Once you have completed your online application, send an email to *heike.faerber@mcgill.ca* at the Bioethics Unit stating your chosen base discipline.

Applicants must be accepted by the appropriate Faculty, the Bioethics Graduate Studies Advisory Committee, and Graduate and Postdoctoral Studies.

19.11.3.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A

Canadian	International	Special/Exchange/Visiting
Summer: N/A	Summer: N/A	Summer: N/A

19.11.3.4 Bioethics Faculty

Faculty
E. Bereza; B.A., M.D.,C.M.(McG.), C.C.F.P.(C)
C. Ells; R.R.T.(VGH), B.A.(St. Mary's), M.A., Ph.D.(Tenn.)
J.R. Fishman; B.A.(Calif., Berk.), Ph.D.(Calif., SF)
K.C. Glass; A.M.(Chic.), LL.B., B.C.L., D.C.L.(McG.)
J. Kimmelman; B.S.(Duke), Ph.D.(Yale)
N.B. King; B.A.(Penn.), M.A., Ph.D.(Harv.)

19.11.4 Biomedical Engineering

19.11.4.1 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*

19.11.4.2 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, probiotics, functional food and neutraceuticals, medical imaging, microfluidics, 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 fulfil 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*.

section 19.11.4.5: 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 biomodelling, biosignal processing, medical imaging, nanotechnology,

section 19.11.4.5: Master of Engineering (M.Eng.); Biomedical Engineering (Thesis) (45 credits)

artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics. 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 19.11.4.6: 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 19.11.4.7: 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 biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics. 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 19.11.4.8: 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.

19.11.4.3 Biomedical Engineering Admission Requirements and Application Procedures

19.11.4.3.1 Admission Requirements

See *section 11.6.2: Admission Requirements (Minimum Requirements to be Considered for Admission)*. In addition, please see the Department website: *www.mcgill.ca/bme*.

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 11.6.3: Application Procedures* for detailed application procedures.

Please address enquiries directly to the Department.

19.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: March 15	Fall: March 15
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Summer term admission will not be considered.

19.11.4.4 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

J.D. Bobyn; B.Sc., M.Sc.(McG.), Ph.D.(Tor.) (*joint appt. with Surgery*)

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.)

G.B. Pike; B.Eng., M.Eng., Ph.D.(McG.) (*joint appt. with Neurology and Neurosurgery*)

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.)

Assistant Professor

C. Grova; B.Sc. M.Sc.(UTC-France), Ph.D.(Rennes)

Associate Members

S. Baillet (*Neurology and Neurosurgery*)

C. Baker (*Ophthalmology*)

F. Barthelat (*Mechanical Engineering*)

K. Cullen (*Physiology*)

I. El Naqa (*Oncology*)

J. Gotman (*Neurology and Neurosurgery*)

D. Guitton (*Neurology and Neurosurgery*)

E. Jones (*Chemical Engineering*)

A. Katsarkas (*Otolaryngology*)

J. Kinsella (*Bioengineering*)

A.M. Lauzon (*Medicine*)

R. Leask (*Chemical Engineering*)

T. Milner (*Kinesiology and Physical Education*)

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*)

Adjunct Professors

P.G. Charette (Sher.)

J.-M. Lina (ETS)

Adjunct Professors

T. Veres (NRC)

19.11.4.5 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 500D1	(1.5)	Seminars in Biomedical Engineering
BMDE 500D2	(1.5)	Seminars in Biomedical Engineering
BMDE 501	(3)	Selected Topics in Biomedical Engineering
BMDE 502	(3)	BME 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 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
EXMD 610	(3)	Molecular Methods in Medical Research
MDPH 607	(3)	Introduction to Medical Imaging
MDPH 611	(2)	Medical Electronics

MDPH 612	(2)	Computers in Medical Imaging
MECH 500	(3)	Selected Topics in Mechanical Engineering
MECH 561	(3)	Biomechanics of Musculoskeletal Systems
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

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.

19.11.4.6 Master of Engineering (M.Eng.); Biomedical Engineering (Thesis) — Bioinformatics (45 credits)

Thesis Courses (24 credits)

BMDE 693	(6)	Thesis Research 4
BMDE 694	(6)	Thesis Research 5
BMDE 695	(12)	Thesis Submission

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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:

BIOT 505	(3)	Selected Topics in Biotechnology
BMDE 500D1	(1.5)	Seminars in Biomedical Engineering
BMDE 500D2	(1.5)	Seminars in Biomedical Engineering
BMDE 501	(3)	Selected Topics in Biomedical Engineering
BMDE 502	(3)	BME 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 650	(3)	Advanced Medical Imaging
BMDE 651	(3)	Orthopaedic Engineering
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
EXMD 610	(3)	Molecular Methods in Medical Research
MDPH 607	(3)	Introduction to Medical Imaging
MDPH 611	(2)	Medical Electronics
MDPH 612	(2)	Computers in Medical Imaging
MECH 500	(3)	Selected Topics in Mechanical Engineering
MECH 561	(3)	Biomechanics of Musculoskeletal Systems
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

6 credits selected 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

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.

19.11.4.7 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

BMDE 700	(0)	Ph.D. Comprehensive

Students must be registered in the course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

19.11.4.8 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)

BMDE 700	(0)	Ph.D. Comprehensive
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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:

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

19.11.5 Communication Sciences and Disorders

19.11.5.1 Location

School of Communication Sciences and Disorders
Beatty Hall
1266 Pine Avenue West
Montreal, QC H3G 1A8
Canada

Telephone: 514-398-4137
Fax: 514-398-8123
Email: *scsd@mcgill.ca*
Website: *www.mcgill.ca/scsd*

19.11.5.2 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, 235 boulevard René-Lévesque est, bureau 601, Montreal, Quebec, 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 *www.mcgill.ca/study*.

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, 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 19.11.5.6: 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

section 19.11.5.6: Master of Science, Applied (M.Sc.A.); Communication Sciences & Disorders (Non-Thesis) — Speech-Language Pathology (81 credits)

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 the Canadian Association of Speech Language Pathologist and Audiologists (CASLPA). 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 19.11.5.5: 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 (if they also have a clinical degree) or settings that combine clinical and research activities or continuing their research training at the doctoral level.

section 19.11.5.7: 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) or without a master’s thesis complete a Qualifying year, which includes coursework and a research project. This flexible entry attracts independent scholars with diverse backgrounds and interests, which creates a stimulating and enriched training environment. The main component of the Ph.D. program (beyond the Qualifying year) has minimal required coursework and is structured to support students as they develop and pursue an innovative, individualized program of doctoral studies. Admission to the doctoral program requires identification of a SCSD professor(s) with relevant expertise to mentor the student in this process. Ph.D. students have the opportunity to pursue an interdisciplinary specialization in language acquisition through the McGill Language Acquisition Program, which intersects with McGill departments of Linguistics, Psychology, and Education. Our Ph.D. graduates typically pursue academic careers in universities or research institutes, but some work in settings that combine research and professional activities.

section 19.11.5.8: 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*. 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.

19.11.5.3 Communication Sciences and Disorders Admission Requirements and Applications Procedures

19.11.5.3.1 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.

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 11.6.3: 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.

19.11.5.3.2.1 Additional Requirements

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

M.Sc. (Applied)

- Prerequisite Form
- Personal Statement
- Curriculum Vitae
- Reference letters – one professional and one academic

M.Sc. (Thesis) and Ph.D.

- Personal Statement
- Curriculum Vitae
- Research Proposal
- 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).

19.11.5.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

19.11.5.4 Communication Sciences and Disorders Faculty

Director and Associate Dean
Marc Pell

Research Director
Linda Polka

Emeritus Professor

Donald Doehring; B.A.(Buff.), M.A.(N.M.), Ph.D.(Ind.)

Professors

Shari Baum; B.A.(C'nell), M.S.(Vermont), M.A., Ph.D.(Brown)

Athanasios Katsarkas; M.D.(Thess.), M.Sc.(McG.), F.R.C.P.(C)

Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)

Associate Professors

Vincent Gracco; B.A., M.A.(San Diego), Ph.D.(Wisc.-Madison)

Linda Polka; B.A.(Slippery Rock), M.A.(Minn.), Ph.D.(S. Flor.)

Susan Rvachew; B.Sc.(Alta.), M.Sc., Ph.D.(Calg.)

Karsten Steinhauer; M.Sc., Ph.D.(Dr.rer.nat)(Free Univ., Berlin)

Elin Thordardottir; B.A., M.Sc., Ph.D.(Wisc.-Madison)

Assistant Professors

Meghan Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)

Laura Gonnerman; B.A.(Boston), M.A.(Middlebury), Ph.D.(USC)

Aparna Nadig; B.A.(Reed), M.S., Ph.D.(Brown)

Assistant Professors (Part-Time)

Christina Lattermann; Staatlich anerkannte Logopaedin(Westfaelische Wilhelms-Universität, Muenster), M.Sc.(McG.), Ph.D.(Kassel)

Gabriel Leonard; B.A.(Dublin), D.A.P., M.Sc., Ph.D.(McG.)

Rosalee Shenker; B.Sc.(Syrac.), M.A.(Calif. St.), Ph.D.(McG.)

Faculty Lecturers

M. Kelly Root; B.A.(Ott.), M.Sc.(Dal.)

Sophie Vaillancourt; B.Sc., MOA(Montr.), M.B.A.(McG.)

Faculty Lecturers (Part-Time)

Catherine Bosse; B.Ed.(Montr.), M.Sc.A.(McG.)

Myrto Brandeker; M.Sc.(Karolinska Inst.)

Liliane Brunetti; B.Sc.(C'dia), M.Cl.Sc.(W. Ont.)

Patricia Coffin; B.A.(PEI), M.Sc.(Dal.)

Karen Evans; Licentiate(L.C.S.T.), M.A.(Car.), M.Sc.(McG.)

Ariana Fraid; B.A., M.Sc.A.(McG.)

James Lapointe; B.A., M.Sc.A.(McG.)

Zinta Mateus; B.S.(Rutg.), B.Ed., M.Sc.A.(McG.)

Gina Mills; B.Sc.(Acad.), M.Sc.(Dal.)

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*)

19.11.5.5 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.

19.11.5.6 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
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Development
SCSD 636	(3)	Fluency Disorders
SCSD 637	(3)	Developmental Language Disorders 1
SCSD 638	(3)	Neurolinguistics
SCSD 639	(3)	Voice Disorders
SCSD 642	(3)	Aural Rehabilitation
SCSD 643	(3)	Developmental Language Disorders 2

SCSD 644	(3)	Applied Neurolinguistics
SCSD 646	(4)	Introductory Clinical Practicum
SCSD 669	(3)	ASD and Neurodevelopmental Disorders
SCSD 679	(12)	Advanced Clinical Practicum
SCSD 680	(3)	Deglutition and Dysphagia
SCSD 681	(1)	Practicum and Seminar 1
SCSD 682	(1)	Practicum and Seminar 2
SCSD 683	(1)	Practicum and Seminar 3
SCSD 684	(1)	Practicum and Seminar 4
SCSD 689	(1)	Management Cranio-Facial Disorders

Complementary Courses (6 credits)

Two of the following:

SCSD 664	(3)	Communication Sciences and Disorders 1
SCSD 666	(3)	Communication Sciences and Disorders 3
SCSD 667	(3)	Communication Sciences and Disorders 4
SCSD 670	(3)	Communication Sciences and Disorders 2
SCSD 678	(3)	Special Topics 4

19.11.5.7 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)

SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2
SCSD 685	(3)	Research Project 1
SCSD 686	(3)	Research Project 2
SCSD 701	(0)	Doctoral Comprehensive

Complementary Courses (6 credits)

Minimum of 6 credits of graduate-level statistics from courses such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 684	(3)	Applied Multivariate Statistics
EPIB 621	(4)	Data Analysis in Health Sciences
EPIB 622	(3)	Scientific Communication
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Any other course requirements specified for the student's individual program of study.

19.11.5.8 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)

EDSL 711	(2)	Language Acquisition Issues 3
LING 710	(2)	Language Acquisition Issues 2
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2
SCSD 701	(0)	Doctoral Comprehensive
SCSD 712	(2)	Language Acquisition Issues 4

Complementary Courses (9 credits)

3 credits of graduate-level statistics from courses such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

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.

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
EDSL 664	(3)	Second Language Research Methods
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

19.11.6 Epidemiology and Biostatistics

19.11.6.1 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*

19.11.6.2 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.

19.11.6.3 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.(C'nell), 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.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

Professors Post-Retirement

A. Lippman; B.A.(C'nell), Ph.D.(McG.)

I.B. Pless; B.A., M.D.(W. Ont.)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

Professors

M. Abrahamowicz; Ph.D.(Cracow) (*James McGill Professor*)

J.F. Boivin; M.D.(Laval), S.M., Sc.D.(Harv.)

Professors

J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (*joint appt. with Medicine*) (*on leave Jan. to June 2014*)

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.)

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*)

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*)

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*) (*on leave Sept. 2013 to Aug. 2014*)

S. Suissa; 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*) (*on leave May to Oct. 2013*)

A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome) (*on leave Jan. to Dec. 2014*)

N. Dendukuri; M.Sc.(IIT), 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*)

E.E.M. Moodie; B.A.(Winn.), M.Phil.(Camb.), Ph.D.(Wash.) (*on leave Aug. 2013 to July 2014*)

M. Pai; M.B.B.S.(Stanley Med. Coll.), M.D.(Christian Medical Coll.), Ph.D.(Calif., Berk.)

J. Pickering; B.A.(Tor.), M.D., M.Sc.(McG.) (*joint appt. with Medicine*)

A. Quesnel-Vallée; B.A., M.Sc.(Montr.), M.A., Ph.D.(Duke) (*joint appt. with Sociology*)

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*)

J. Cox; B.Sc., B.A., M.D.(Dal.), M.Sc.(McG), C.C.F.P., F.R.C.P.(C) (*joint appt. with Family Medicine*)

S. Harper; B.A.(Westminster Coll.), M.S.P.H.(S. Carolina), Ph.D.(Mich.)

S. Martin; M.D.(Tor.), M.Sc.(McG.) (PT)

Assistant Professors

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)

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

Medicine: J. Afilalo, A. Barkun, M. Behr, S. Bernatsky, J. Bourbeau, P. Brassard, A. Clarke, K. Dasgupta, M. Eisenberg, P. Ernst, K. Filion, M. Goldberg, C. Greenaway, S. Kahn, M. Klein, A. Marelli, N. Mayo, N. Pant Pai, L. Pilote, E. Rahme, B. Richards, K. Schwartzman, M. Sewitch, I. Shrier, V. Tagalakis, G. Thanassoulis

Ob/Gyn: H. Abenhaim, R. Gagnon

Oncology: V. Dumeaux

Pathology: B. Case

Pediatrics: M. Ben Shoshan, G. Dougherty, P. Fontela, B. Foster, C. Quach-Thanh, 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, C. Paquette, 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, K. Dehaghani, G. Denis, A. Kossowski, R. Lessard, R. Massé, S. Palmieri, S. Perron, M. Roy

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. Siemiatycki

19.11.6.4 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 19.11.6.4.2: 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 19.11.6.4.3: 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 public 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 19.11.6.4.4: 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 19.11.6.4.5: 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.

19.11.6.4.1 Epidemiology Admission Requirements and Application Procedures

19.11.6.4.1 Admission Requirements

The graduate programs in Epidemiology (M.Sc. and Ph.D.) and Public Health (M.Sc.) require substantial quantitative skills. The Admission Committees for these programs look for documented proof of quantitative proficiency including good grades in college-level differential and integral calculus. Documented proof of proficiency must be provided in all applications. Applicants having completed this requirement at the CEGEP/college level must upload these transcripts with their university transcripts.

- Candidates who cannot provide documented proof of calculus proficiency are required to take the Graduate Record Examination (GRE) General Test.
- The GRE is also required of candidates who are health professional graduates from universities outside North America.

Master's in Epidemiology

Applicants to the M.Sc. in Epidemiology programs must hold a bachelor's degree in a related area.

Master's of Public Health

Applicants to the Master's of Public Health programs must hold a bachelor's degree in a related area.

Ph.D.

Applicants to the Ph.D. program who hold a master's in Epidemiology are eligible for admission to the core year. Applicants with other graduate-level degrees or exceptional students without a master's degree are also eligible and will be considered for admission to a preparatory year.

Complete details on the Epidemiology programs are available on our Departmental website at: *www.mcgill.ca/epi-biostat-occh/grad/epidemiology/requirements*.

Language Requirement

Minimum TOEFL scores required, when applicable, of 100 on the Internet-based test. Minimum score for IELTS: 6.5.

19.11.6.4.1.1.1 Application Procedures

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

See *section 11.6.3: 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 deadline.

Please download required documents from our website: *www.mcgill.ca/epi-biostat-occh*, then select the Graduate Studies tab to link to the appropriate degree program.

19.11.6.4.1.1.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement
- EBOH Application Checklist – not required for Ph.D.
- Research Proposal – required for intensive M.Sc. for clinicians
- Acceptance by a research supervisor – required for intensive M.Sc. for clinicians

For more details and to download the appropriate forms, please consult the website at *www.mcgill.ca/epi-biostat-occh/grad/epidemiology/applying*.

19.11.6.4.1.1.2 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 15	Fall: Dec. 15	Fall: Apr. 30
Winter: N/A	Winter: N/A	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

19.11.6.4.2 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.

19.11.6.4.3 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.

19.11.6.4.4 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.

19.11.6.4.5 Doctor of Philosophy (Ph.D.); Epidemiology

Preparatory Year

Students who are admitted to the Ph.D. degree program without the equivalent of an M.Sc. in epidemiology at McGill will, in their first year, be required to take, as a minimum, the following courses: EPIB 601, EPIB 602, EPIB 603, EPIB 605, EPIB 607, EPIB 613, EPIB 614, EPIB 621 (equivalent to required coursework of the master's program).

This year is called the Preparatory Year. Students then continue, in their second year, into the Core Year.

Core Year

Students who are admitted to the Ph.D. degree program with the equivalent of the M.Sc. in epidemiology at McGill will, in their first year, be required to take, as a minimum, 15 credits of required Ph.D. courses. This year is called the Core 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 (12 credits)

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
EPIB 702	(0)	Ph.D. Proposal

Complementary Courses (34 credits)

12-34 credits

0-22 credits* from the following:

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

* Note: If a student has not already successfully completed them or their equivalent.

12 credits of coursework, at the 500 level or higher, of which a minimum of 3 credits in ethics (medical/public health/research), 3 credits in biostatistics, 3 credits in substantive topic, and 3 credits in epidemiology. Courses must be chosen and approved in consultation with the program's academic adviser.

19.11.6.5 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 19.11.6.5.2: 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 19.11.6.5.3: 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 19.11.6.5.4: 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.

19.11.6.5.1 Biostatistics Admission Requirements and Application Procedures

19.11.6.5.1.1 Biostatistics

19.11.6.5.1.1.1 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.: 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/requirements*.

Language Requirement

Minimum TOEFL scores required, when applicable, of 100 on the Internet-based test. Minimum score for IELTS: 6.5.

19.11.6.5.1.1.2 Application Procedures

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

See *section 11.6.3: 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* for information on required documents as well as the application deadlines.

19.11.6.5.1.1.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 15	Fall: Dec. 15	Fall: April 30
Winter: N/A	Winter: N/A	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

19.11.6.5.2 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

19.11.6.5.3 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.

19.11.6.5.4 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

BIOS 700	(0)	Ph.D. Comprehensive Examination Part A
BIOS 701	(0)	Ph.D. Comprehensive Examination Part B
BIOS 702	(0)	Ph.D. Proposal

Complementary Courses (28 credits)

0-28 credits from the following list: (if a student has not already successfully completed them or their equivalent)

BIOS 601	(4)	Epidemiology: Introduction and statistical models
BIOS 602	(4)	Epidemiology: Regression Models
BIOS 624	(4)	Data Analysis & Report Writing
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

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).

19.11.7 Experimental Medicine

Please see *section 19.11.11: Medicine, Experimental* for more information.

19.11.8 Family Medicine Option

Please see *section 19.11.12: Medicine, Family (Option)* for more information.

19.11.9 Human Genetics

19.11.9.1 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*

Administration

Kandace Springer – *Administrative Assistant*

Email: *kandace.springer@mcgill.ca*

Ross Mackay – *Graduate Program Coordinator*

Email: *ross.mackay@mcgill.ca*

Laura Benner – *Assistant Graduate Program Coordinator*

Email: *laura.benner@mcgill.ca*

19.11.9.2 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 genetic basis of human diseases. 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 3.5/4.0 or above** (as converted by McGill GPS guidelines) and who submit online application and documents by **Jan. 31 (Summer), March 31 (Fall), Sept. 30 (Winter)** will automatically be considered for a tuition waiver.

section 19.11.9.5: 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 19.11.9.6: 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 19.11.9.7: 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 19.11.9.8: 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 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 19.11.9.9: 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, 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 19.11.9.10: 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.

19.11.9.3 Human Genetics Admission Requirements and Application Procedures

19.11.9.3.1 Admission Requirements

M.Sc. in Genetic Counselling

Prerequisites: Bachelor's or medical degree – minimum cumulative grade point average (CGPA) of 3.0/4.0 or 3.2/4.0 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 3.0/4.0 or 3.2/4.0 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.

19.11.9.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.9.3.3 Application Deadlines

Canadian			International			Special/Exchange/Visiting
M.Sc. Genetic Counselling program* (Non-Thesis)	**M.Sc. (Thesis) programs**	**Ph.D. programs**	**M.Sc. Genetic Counselling program* (Non-Thesis)**	**M.Sc. (Thesis) programs**	**Ph.D. programs**	
Fall: Jan. 15	Fall: March 31	Fall: March 31	Fall: Jan. 15	Fall: March 31	Fall: March 31	Fall: N/A
Winter: N/A	Winter: Sept. 30	Winter: Sept. 30	Winter: N/A	Winter: Sept. 30	Winter: Sept. 30	Winter: N/A
Summer: N/A	Summer: N/A**	Summer: Jan. 31	Summer: N/A	Summer: N/A**	Summer: Jan. 31	Summer: N/A

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.**

** The Department of Human Genetics is not willing to consider any applications to the M.Sc. (Thesis) for the Summer term.

19.11.9.4 Human Genetics Faculty

Chair

D.S. Rosenblatt

Program Directors

J. Fitzpatrick – *M.Sc. in Genetic Counselling*

E. Shoubridge – *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.)

B. Mukherjee; B.Sc.(Calc.), M.S.(Brig. Young), Ph.D.(Utah)

L. Pinsky; M.D.(McG.)

C. Scriver; B.A., M.D.,C.M.(McG.)

Professors

E. Andermann; M.Sc., Ph.D., M.D.,C.M.(McG.) (*Neurology and Neurosurgery*)

A. Duncan; B.Sc.(Qu.), Ph.D.(Edin.) (*Pathology and Pediatrics*)

W. Foulkes; B.Sc., MB.BS., Ph.D.(Lond.) (*Medicine*)

F. Glorieux; M.D.(Louvain), Ph.D.(McG.) (*Surgery*)

Professors

F. Kaplan; B.A.(Col.), Ph.D.(McG.) (*Pediatrics*)

B. Knoppers; Ph.D.(Sorbonne, France), 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*)

D. Malo; D.U.M., M.Sc.(Montr.), Ph.D.(McG.) (*William Dawson Scholar*) (*Medicine*)

R. McInnes; C.M.,M.D., Ph.D., F.R.S.C.(McG.) (*Alva Chair in Human Genetics*) (*Director, Lady Davis Research Institute*)

R. Palmour; B.A.(Texas W.), Ph.D.(Texas) (*Psychiatry and Biology*)

D. Radzioch; M.Sc., Ph.D.(Jagiellonian, Krakow) (*Medicine*)

D.S. Rosenblatt; M.D.,C.M.(McG.) (*Medicine, Pediatrics, and Biology*)

R. Rozen; B.Sc., Ph.D.(McG.) (*Pediatrics and Biology*)

E. Schurr; M.Sc., Ph.D.(Albert-Ludwigs, Freiburg) (*Medicine*)

E. 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*)

S. Vidal; Ph.D.(Genève) (*Medicine*)

Associate Professors

A. Ao; Ph.D.(Lond.) (*OB/GYN*)

D. Avard; Ph.D.(Camb.) (*Centre of Genomics and Policy*)

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.(C'nell), 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)

V. Ozdemir; M.D.(Hacettepe), M.Sc., Ph.D.(Tor.) (*Centre of Genomics and Policy*)

T. Pastinen; M.D., Ph.D.(Helsinki)

I. Ragoussis; Ph.D.(Tübingen)

L. Russell; B.A., M.D.(Ind.) (*Pediatrics*)

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*)

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)(C'nell) (*Numerical methods*)

E. Grundberg; Ph.D.(Uppsala) (*Internal medicine*)

Assistant Professors

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*)

R. Sladek; B.A.Sc., M.D.(Tor.)

R. Slim; M.Sc.(Lebanon), M.Sc., Ph.D.(Paris VII)

Y. Yamanaka; Ph.D.(Osaka) (*Goodman Cancer Research Centre*)

Lecturers

N. Bolduc (*Pediatrics*)

S. Drury (*Pediatrics*)

S. Fox (*Medicine*)

L. Kasprzak (*Medicine*)

M. Lalous (*Medicine*)

L. Macrae (*Medicine*)

L. Palma (*Medicine*)

C. Pouchet (*JGH*)

A. Secord (*Pediatrics*)

G. Sillon (*Medicine*)

R. Vanneste (*Pediatrics*)

L. Whelton (*Medicine*)

N. Wong (*Medicine*)

S. Zaor (*Medicine*)

Adjunct Professors

M. Cloutier (*Children's Hospital of Eastern Ontario*)

C. Goldsmith (*Children's Hospital of Eastern Ontario*)

V.A. Hastings (*Children's Hospital of Eastern Ontario*)

Adjunct Member

D. Vinh; M.D. (*Dept. of Medical Microbiology; Medicine*)

Associate Members

Biochemistry: P. Gros, D. Thomas

Bioethics: J. Kimmelman

Cardiology: J. Genest

Endocrinology: C. Polychonakos, B. Richards

Law: R. Gold

Medicine: D. Cournoyer, J. Engert, B. Gilfix, B. Gottleib, C. Haston, G.Hendy, A. Karaplis, R. Koenekoop, A. Peterson, F. Rauch, E. Skamene, M. Trifiro

Nephrology: I. Gupta

Obs.-Gyn.: R. Gagnon, A. Naumova

Pathology: A. Spatz

Pediatrics: P. Goodyer, N. Jabado, L. Majewska, J. Mitchell, A. Ryan

Psychiatry: R. Joober, G. Turecki

Associate Members

Surgery: P. Roughley

19.11.9.5 Master of Science (M.Sc.); Human Genetics (Thesis) (45 credits)

Thesis Courses (33 credits)

HGEN 680	(9)	M.Sc. Thesis Research 1
HGEN 681	(12)	M.Sc. Thesis Research 2
HGEN 682	(12)	M.Sc. Thesis Research 3

Required Courses (6 credits)

HGEN 662	(3)	Laboratory Research Techniques
HGEN 692	(3)	Human Genetics

Complementary Courses (6 credits)

6 credits chosen from the departmental offerings below or from 500-, 600-, or 700-level courses offered in the Faculties of Medicine or Science:

HGEN 660	(3)	Genetics and Bioethics
HGEN 661	(3)	Population Genetics
HGEN 663	(3)	Beyond the Human Genome
HGEN 670	(3)	Advances in Human Genetics 1
HGEN 671	(3)	Advances in Human Genetics 2
HGEN 690	(3)	Inherited Cancer Syndromes
HGEN 691	(3)	Host Responses to Pathogens
HGEN 693	(3)	Using Bioinformatics Resources
HGEN 694	(3)	Microarray Statistical Analysis
HGEN 695	(3)	Psychiatric Genetics
HGEN 696	(3)	Advanced Readings in Genetics 1
HGEN 697	(3)	Advanced Readings in Genetics 2
HGEN 698	(3)	Advanced Readings in Genetics 3
HGEN 699	(3)	Advanced Readings in Genetics 4

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

19.11.9.6 Master of Science (M.Sc.); Human Genetics (Thesis) — Bioinformatics (45 credits)

Thesis Courses (33 credits)

HGEN 680	(9)	M.Sc. Thesis Research 1
HGEN 681	(12)	M.Sc. Thesis Research 2
HGEN 682	(12)	M.Sc. Thesis Research 3

Required Courses (6 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
HGEN 692	(3)	Human Genetics

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.

19.11.9.7 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 543	(3)	Seminar: Medical Ethics
RELG 571	(3)	Religion and Medicine

19.11.9.8 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
HGEN 641	(3)	Second Year Practicum 2
PATH 653	(3)	Reading and Conference

19.11.9.9 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)

HGEN 692	(3)	Human Genetics
HGEN 701	(0)	Ph.D. Comprehensive Examination

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.

HGEN 660	(3)	Genetics and Bioethics
HGEN 661	(3)	Population Genetics
HGEN 663	(3)	Beyond the Human Genome
HGEN 690	(3)	Inherited Cancer Syndromes
HGEN 691	(3)	Host Responses to Pathogens
HGEN 693	(3)	Using Bioinformatics Resources
HGEN 694	(3)	Microarray Statistical Analysis
HGEN 695	(3)	Psychiatric Genetics
HGEN 696	(3)	Advanced Readings in Genetics 1
HGEN 697	(3)	Advanced Readings in Genetics 2
HGEN 698	(3)	Advanced Readings in Genetics 3
HGEN 699	(3)	Advanced Readings in Genetics 4

Students are restricted to taking the following courses:

HGEN 670	(3)	Advances in Human Genetics 1
HGEN 671	(3)	Advances in Human Genetics 2

Note: The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate.

19.11.9.10 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)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
HGEN 692	(3)	Human Genetics
HGEN 701	(0)	Ph.D. Comprehensive Examination

Complementary Courses (6 credits)

* Two courses from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

* Note: Students who enter in Ph.D. 1 will need to take an additional 6 credits of complementary courses chosen from the departmental offerings listed for the Ph.D. in Human Genetics and/or from among 500-, 600-, or 700-level courses in the Faculties of Medicine or Science.

19.11.10 Medical Physics

19.11.10.1 Location

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: *mak@medphys.mcgill.ca*
Website: *www.medphys.mcgill.ca*

19.11.10.2 About Medical Physics

The Medical Physics 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 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 research interests of members of the Unit include various aspects of medical imaging, including 3D imaging, the development of new imaging modalities, and applications of imaging in radiation therapy; radiation dosimetry, Monte Carlo numerical simulation techniques; nuclear cardiology; and applications of radiation biology to therapy.

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).

section 19.11.10.5: 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

section 19.11.10.5: Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 credits)

safety experts, etc.; or pursue academic careers in university, industry, or government organizations. Our graduate programs are accredited by CAMPEP (Commission for Accreditation of Medical Physics Education Programs). Medical physicists must go through CAMPEP training (M.Sc. or Ph.D., followed by a residency training) to be eligible to sit certification exams. Certification is becoming a mandatory requirement for eligibility to practise in a clinical environment. The McGill M.Sc. program is research oriented, which has the additional advantage that the roads toward a Ph.D., followed by academic, industry, or clinical careers, are wide open. The practical and laboratory sections of the program are conducted in various McGill teaching hospitals.

The program comprises:

1. didactic courses in radiation physics, radiation dosimetry, the physics of nuclear medicine and diagnostic radiology, medical imaging, medical electronics and computing, radiation biology, and radiation hazards and protection;
2. seminars in radiation oncology, diagnostic radiology, and miscellaneous aspects of medical physics, e.g., lasers;
3. laboratory courses in radiation dosimetry and medical imaging;
4. an individual research thesis.

19.11.10.3 Medical Physics Admission Requirements and Application Procedures

19.11.10.3.1 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 overall GPA of 3.0/4.0 (minimum of 70%).

19.11.10.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

For information regarding the application procedure please go to the Medical Physics Unit admissions website at *www.medphys.mcgill.ca* 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 "Program Information" section to ensure that the application is routed to the correction department:

"Program 1" = MSc Med Radiation Physics-T
"Major" = Medical Radiation Physics-T
"Dept" = Medical Physics Unit

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#docs*.

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.

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 a TOEFL, iBT, or IELTS. 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, 2012 for a graduate application to McGill for Fall 2014. 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, i.e., addresses such as Gmail or Yahoo will not be accepted.

19.11.10.3.2.1 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.

19.11.10.3.3 Application Deadlines

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, 2014 to be considered for the Fall 2014 term. The online application for Fall 2014 will be available by the end of September 2013.

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

19.11.10.4 Medical Physics Faculty

Director

J.P.F. Seuntjens

Emeritus Professor

E.B. Podgorsak; Dipl.Ing.(Ljubljana), M.Sc., Ph.D.(Wisc.), F.C.C.P.M., F.A.A.P.M., D.A.B.M.P., D.A.B.R.

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.P.F. 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. Sarfehnia; 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.

Affiliate Members

S. Davis, R. Farivar-Mohsen, A. Gauvin, G. Hegyi, C. Janicki, J. Kildea, P. Léger, R. Richardson, R. Ruo, J. Thebaut, N. Tomic, W. Wierzbicki

19.11.10.5 Master of Science (M.Sc.); Medical Radiation Physics (Thesis) (60 credits)

Thesis Courses (32 credits)

MDPH 625	(32)	M.Sc. Thesis Research

Required Courses (28 credits)

MDPH 601	(3)	Radiation Physics

MDPH 602	(3)	Applied Dosimetry
MDPH 603	(2)	Laboratory Practicum 1
MDPH 607	(3)	Introduction to Medical Imaging
MDPH 608	(2)	Laboratory - Diagnostic Radiology and Nuclear Medicine
MDPH 609	(2)	Radiation Biology
MDPH 611	(2)	Medical Electronics
MDPH 612	(2)	Computers in Medical Imaging
MDPH 613	(2)	Health Physics
MDPH 614	(3)	Physics of Diagnostic Radiology
MDPH 615	(3)	Physics of Nuclear Medicine
MDPH 616	(1)	Selected Topics in Medical Physics

19.11.11 Medicine, Experimental

19.11.11.1 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*

19.11.11.2 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 19.11.11.5: 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 or 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 19.11.11.6: Master of Science (M.Sc.); Experimental Medicine (Thesis) — Bioethics (45 credits)

Applicants for the M.Sc. (Bioethics Option) program must hold an M.D., Nursing, Physical and Occupational Therapy, and/or any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis. The objectives of this research-stream program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies. The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, Bioethics courses (6-credit minimum) offered by the base faculty or department, and any graduate course required or accepted by a base faculty for the granting of a master's degree, for a total of 21 credits. A minimum of 45 credits is required including the thesis. The research culminates in the preparation of a thesis.

section 19.11.11.7: 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. Acceptability 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 19.11.11.8: 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 to be 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 19.11.11.9: 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 19.11.11.10: 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 19.11.11.11: 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.

19.11.11.3 Medicine, Experimental Admission Requirements and Application Procedures

19.11.11.3.1 Admission Requirements

M.Sc. or Ph.D. in Experimental Medicine

Admission to graduate studies and research in Experimental Medicine is no longer solely restricted to students who wish to register for the Ph.D. degree. Candidates who hold only an undergraduate degree in the medical and allied sciences (B.Sc. degree or an M.D. degree), must apply to the M.Sc. program, unless they have an undergraduate CGPA of 3.5 or more out of a possible 4.0, in which case they may apply for direct entry into the Ph.D. if they so desire. Candidates who already hold an M.Sc. apply directly to the Ph.D. program.

Admission is based on an evaluation by the Admissions Committee, which looks for evidence of high academic achievement, and on acceptance by a research director. 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/biomedicalethicsunit/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*.

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/mastersprogram*.

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.

19.11.11.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.11.3.2.1 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))

19.11.11.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: April 30	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Aug. 31	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

19.11.11.4 Medicine, Experimental Faculty

Chair, Department of Medicine

J. Martin (*Interim*)

Director, Division of Experimental Medicine

H. Bennett

Emeritus Professor

T.M.S. Chang; B.Sc., M.D.,C.M., Ph.D.(McG.), F.R.C.P.(C)

Professors

M. Alaoui-Jamali; D.V.M.(Rabat, Morocco), Ph.D.(René-Descartes, Paris)

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)

H. Bennett; B.A.(York, UK), Ph.D.(Brun.)

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)

A. Fuks; B.Sc., M.D.,C.M.(McG.)

J. Genest Jr.; M.D.,C.M.(McG.), F.R.C.P.(C)

A. Giaid; D.V.M.(Baghdad), M.D., Ph.D.(Lond.)

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)

Professors

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.)

G. Hendy; B.Sc.(Sheff.), Ph.D.(Lond.)

J. Hiscott; B.Sc., M.Sc.(W. Ont.), Ph.D.(NYU)

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)

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)

J. Milic-Emili; M.D.(Milan), F.R.S.C.

W.H. Miller; A.B.(Princ.), Ph.D.(Rock.), M.D.(C'nell)

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)

L. Panasci; B.Sc., M.D.(G’town)

K. Pantopoulos; B.Sc., Ph.D.(Aristotelian, Greece)

V. Papadopoulos; D.Pharm.(Athens), Ph.D.(Paris)

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.)

S. Prakash; M.Sc., M.Tech., M.Phil.(India), Ph.D.(McG.)

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.)

E. Schiffrin; M.D.(Argentina), Ph.D.(McG.)

E. Schurr; Diplom., Ph.D.(Al. Ludwigs U., Freiburg)

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.)

Professors

C. Tsoukas; B.Sc.(McG.), M.Sc.(Hawaii), M.D.(Athens), F.R.C.P.(C)

M. Wainberg; B.Sc.(McG.), Ph.D.(Col.)

J. White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.)

S. Wing; B.Sc., M.Sc.(McG.)

X.-J. Yang; B.Sc.(Zhejiang), Ph.D.(Shanghai)

M. Zannis-Hadjopoulos; B.Sc., M.Sc., Ph.D.(McG.)

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)

M. Behr; B.Sc.(Tor.), M.D.(Qu.), M.Sc.(McG.)

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)

G. Di Battista; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

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.)

A. Gatignol; M.Sc., Ph.D.(Paul Sabatier)

S.B. Gottfried; M.D.(Penn.)

J. Henderson; B.Sc., Ph.D.(McG.)

B. Jean-Claude; B.Sc., M.Sc.(Moncton), Ph.D.(McG.)

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.(France), M.Sc.(Rennes), Ph.D.(Paris)

L. Lecanu; M.Sc., Ph.D.(Paris)

S. Lemay; M.D.(Montr.), F.R.C.P.(C)

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.)

Associate Professors

M. Newkirk; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.)

S. Qureshi; B.Sc., M.D.(Alta.), F.R.C.P.(C)

J. Rauch; B.Sc., Ph.D.(McG.)

J.-P. Routy; B.Sc., M.D., Ph.D.(France)

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)

B.J. Ward; M.D.,C.M.(McG.), M.Sc.(Oxf.), F.R.C.P.(C)

Assistant Professors

R. Aloyz; B.A., M.Sc., Ph.D.(Argentina)

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.)

M. Chevrette; B.Sc., M.Sc., Ph.D.(Laval)

I. Colmegna; M.Sc.(Argentina)

S. Daskalopoulou; M.D.(Athens)

M. Divangahi; B.Sc.(McM.), Ph.D.(McG.)

B. Gilfix; B.Sc.(Manit.), Ph.D.(W. Ont.), M.D.,C.M.(McG.), F.R.C.P.(C)

C. Haston; B.Sc.(W. Ont.), M.Sc.(Tor.), Ph.D.(Texas)

N. Johnson; B.Sc.(C'dia), M.D.(Ott.), Ph.D.(Br. Col.), F.R.C.P.(C)

M. Kokoeva; B.Sc., Ph.D.(Russia)

L. Koski; B.Sc.(Tor.), Ph.D.(McG.)

A. Kristof; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

S. Lehoux; B.Sc.(Bishop's), Ph.D.(Sher.)

C. Liang; B.Sc., Ph.D.(Nankai)

B. Mazer; 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.)

C. Rocheleau; B.A.(Assumption Coll.), Ph.D.(Mass.)

S. Rousseau; B.Sc., M.Sc., Ph.D.(Laval)

M. Saleh; B.Sc., M.Sc.(Beirut), Ph.D.(McG.)

M. Sebag; B.Sc., Ph.D.(McG.), M.D.(Tor.), F.R.C.P.(C)

C. Seguin; B.Sc.(McG.), M.D.(Montr.), F.R.C.P.(C)

P. Siegel; B.Sc., Ph.D.(McM.)

R. Sladek; B.Sc., M.D.(Tor.), F.R.C.P.(C)

E. Torban; B.Sc., M.Sc.(Russia), Ph.D.(McG.)

Associate Members, McGill

B. Abdulkarim, A. Andermann, G. Bartlett, M. Basik, E. Bereza, H. Bergman, J.D. Bobyn, D. Boivin, M. Bouchard, J. Bourbeau, P. Brodt, K. Brown, D.H. Burns, S. Chevalier, R.-C. Chian, H. Clarke, T. Coderre, T. Duchaine, D. Dufort, C. Ells, I.M. El Naqa, M. Fabian, R. Farookhi, L. Ferri, K. Glass, C. Goodyer, P. Goodyer, W. Gotlieb, M. Götte, R. Grad, D. Groleau, I. Gupta, J. Haggerty, M. Hunt, N. Jabado, M. Kaartinen, N. Kabani, J. Kimmelman, A. Koromilas, L. Lands, J. Lapointe, S.K. Law, B. Lebouché, C. Mandato, A. Macaulay, K. Mann, L. McCaffrey, C. McCusker, M. Meaney, T. Muanza, M. Nagano, J. Nalbantoglu, M. Ndao, F. Ni, C. O'Flaherty, A. Pause, C. Piccirillo, P. Pluye, C. Polychronakos, J. Rak, C. Rodriguez, E. Rosenberg, A. Ryan, S. Sabri, G. Sant'Anna, R. Schirrmacher, R. Slim, N. Sonenberg, M. Sullivan, G. Tannenbaum, I. Topisirovic, M. Tremblay, J. Ursini-Siegel, I. Vedel, M. Ware, M. Witcher, C. Wu, J.-H. Wu, M. Yaffe, M. Zappitelli, G. Zogopoulos, J. Zwaagstra

Associate Members, Université de Montréal

J. Archambault, M. Cayouette, F. Charron, C. Cheong, E. Cohen, J.-F. Côté, V. Dave, J. Davignon, A. Deng, C.F. Deschepper, C. Desrosiers, J.M. Di Noia, J. Drouin, J. Estall, J.-P. Gratton, H. Gu, J. Gutkowska, B. Haibe-Kains, P. Hamet, Z. Hanna, D. Hipfner, P. Jolicoeur, A. Kania, M. Kmita, E. Lecuyer, T. Moroy, M. Oeffinger, K. Podsypanina, R. Rabasa-Lhoret, E. Racine, T. Reudelhuber, M. Sairam, N. Seidah, W.-K. Suh, J. Tremblay, M. Trudel, W.Y. Tsang, J. Vacher, A. Veillette

Associate Member, Pharmaceutical Industry

B. Gibbs

19.11.11.5 Master of Science (M.Sc.); Experimental Medicine (Thesis) (45 credits)

Thesis Courses (36 credits)

24-36 credits selected from the following:

EXMD 690	(3)	Master's Thesis Research 1
EXMD 691	(6)	Master's Thesis Research 2
EXMD 692	(9)	Master's Thesis Research 3
EXMD 693	(12)	Master's Thesis Research 4
EXMD 694	(12)	Master's Thesis Research 5

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.

19.11.11.6 Master of Science (M.Sc.); Experimental Medicine (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 692	(6)	M.Sc. Thesis Research Progress Report
BIOE 693	(12)	M.Sc. Thesis

Required Courses (6 credits)

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum

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 543	(3)	Seminar: Medical Ethics

RELG 571	(3)	Religion and Medicine

12 credits, four 3-credit BIOE or EXMD graduate courses (500, 600, or 700 level) chosen in consultation with the Supervisor.

19.11.11.7 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.

19.11.11.8 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
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 Research in Health Care

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).

19.11.11.9 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).

19.11.11.10 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
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
EXMD 701D1	(0)	Comprehensive Oral Examination
EXMD 701D2	(0)	Comprehensive Oral Examination

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.

19.11.11.11 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

19.11.12 Medicine, Family (Option)

19.11.12.1 Location

Department of Family Medicine
515-517 Pine Avenue West
Montreal, Quebec H2W 1S4
Telephone: 514-398-7375
Fax: 514-398-4202
Email: *graduateprograms.fammed@mcgill.ca*
Website: *www.mcgill.ca/familymed/mastersprogram*

19.11.12.2 About Family Medicine

The Department of Family Medicine at McGill University has been in existence since the late 1970s. Through the efforts of dedicated and committed faculty members, our department has gained provincial, national, and international renown for its programs. We have graduated over 1,000 family physicians who are working in urban and rural settings around the world. Health Care Reform in Canada has placed the discipline of Family Medicine at the centre of health care delivery. Family physicians have the responsibility to ensure that every individual receives continuous and comprehensive care. The Department of Family Medicine is an academic department composed of health care professionals dedicated to teaching, research, service, and the advancement of the discipline of Family Medicine, locally, nationally, and internationally.

The McGill Department of Family Medicine has the mandate to:

- Provide progressive undergraduate and postgraduate education;
- Develop CME programs to address changes in the health care system;
- Conduct health services research to assess the impact of reform on population health.

19.11.12.3 Medicine, Family (Option) Admission Requirements and Application Procedures

19.11.12.3.1 Admission Requirements

The Family Medicine Option program is open to family physicians practising in Quebec interested in conducting research in family medicine. Exceptionally, we may consider candidates with a different background, such as allied health professionals, and undergraduate students across disciplines wanting to undertake research relevant to family medicine. In this case, you may be considered for admission on an individual basis and should contact the *Program Coordinator* to discuss eligibility.

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. 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 further information, please refer to the *TOEFL* website.

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.

19.11.12.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

Supervisor: You must have met and confirmed a supervisor before the application process can commence. Please contact the *Program Coordinator* by **March 1st** to ensure that you have a supervisor. Prior to processing any admission, we require each file to contain a completed *Confirmation of Supervisor Form*, signed by the proposed supervisor and student. Once the supervisor has been confirmed, the student will need to provide a 1–2 page Project Description of the proposed research.

After the Department of Family Medicine has informed the student that they have passed the first level of approval and that they have been successfully matched up with a supervisor, they are then required to apply officially with the Division of Experimental Medicine and Graduate and Postdoctoral Studies.

Application checklist: This *CHECKLIST* should be submitted at the time of application.

Curriculum Vitae: Please provide a resumé, which should include a statement of research interests as well as a listing of previous research experience and publications, if applicable.

Letters of Reference: Two (2) letters of reference, as well as an *Applicant Evaluation Form* completed by each referee must accompany any application to our program. These letters must be current (not more than six months old) and must be uploaded directly to McGill by the referee. 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. Please note that these should not be the proposed supervisor. *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.*

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.

19.11.12.3.2.1 Additional Requirements

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

- *Applicant Evaluation Form* completed by each referee
- *Application Checklist*
- *Confirmation of Supervisor Form*, signed by the proposed supervisor and student.
- Curriculum Vitae
- Personal Statement – no more than two (2) pages long
- Research Proposal

19.11.12.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: March 15	Fall: N/A
Winter: N/A	Winter: N/A	Winter: N/A

Canadian	International	Special/Exchange/Visiting
Summer: N/A	Summer: N/A	Summer: N/A

All supporting documents must be received by March 15th. Admissions are for the Fall term only.

19.11.12.4 Medicine, Family (Option) 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.Cl.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 Professor

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)

19.11.13 Microbiology and Immunology

19.11.13.1 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*

19.11.13.2 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 19.11.13.5: 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 19.11.13.6: 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.

19.11.13.3 Microbiology and Immunology Admission Requirements and Application Procedures

19.11.13.3.1 Admission Requirements

Master's

Candidates are required to hold a B.Sc. degree in microbiology and immunology, biology, biochemistry, or another related discipline; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. The minimum grade point average (GPA) 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 575
- Internet-Based Test (iBT): a minimum overall score of 95
- The International English Language Testing System (IELTS): a minimum overall band score of 7.0

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.

19.11.13.3.2 Application Procedures

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

See *section 11.6.3: 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.

19.11.13.3.2.1 Additional Requirements

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

- Letter from a prospective supervisor

19.11.13.3.3 Application Deadlines

All applications and documents must be submitted by the application deadlines.

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: Same as Canadian/International
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: Jan. 15	Summer: Jan. 15	Summer: Jan. 15

19.11.13.4 Microbiology and Immunology Faculty

Chair

J. Madrenas

Emeritus Professors

Z. Ali-Khan, M. Baines, G. Faubert, R.A. MacLeod

Professors

A. Berghuis; M.Sc.(The Netherl.), 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.)

S. Vidal; Ph.D.(Geneva)

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.)

Associate Members

Epidemiology and Infectious Diseases: M. Behr, A. Dascal, V. Loo, M. Miller, M. Reed

Human Genetics: P. Gros, M. Tremblay

Immunology, Autoimmunity, Host Defense: J. Antel, A. Bar-Or, M. Burnier, N. Christou, I. Colmegna, P. Gros, A. Kristof, M. Newkirk, J. Rauch, M. Saleh, M. Tremblay, C. Tsoukas

Immunology and Parasitology: P. Ribeiro, P. Rohrbach, B. Ward, M. Ndao, J. Zhang

Medicine: I. Colmegna

Microbiology: C. Liang, J. Nadeau, D. Nguyen, M. Divangahi

Molecular Biology: N. Cermakian, S. Hussain, A. Jardim, A. Mouland, K. Pantopoulos, B. Turcotte

Virology: A. Gatignol, A.E. Koromilas, J.Teodoro

Adjunct Professors

J. Archambault

Adjunct Professors

A. Descoteaux

A. Finzi

P. Lau

B. Lee

S-L. Liu

A. Makrigiannis

W-K. Suh

D. Ziberstein

19.11.13.5 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)

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

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.

19.11.13.6 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
MIMM 723	(1)	Ph.D. Research Progress Report 3
MIMM 724	(1)	Ph.D. Research Progress Report 4

Other courses may be required to strengthen the student's background.

19.11.14 Neuroscience (Integrated Program in)

19.11.14.1 Location

Montreal Neurological Institute, Room 141
3801 University Street
Montreal, QC H3A 2B4
Canada

Telephone: 514-398-1229 / 514-398-6243 / 514-398-1905
Fax: 514-398-4621
Email: *ipn@mcgill.ca* or *ipn.admissions@mcgill.ca*
Website: *www.mcgill.ca/ipn*

19.11.14.2 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 19.11.14.5: 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.

section 19.11.14.6: Doctor of Philosophy (Ph.D.); Neuroscience

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.

19.11.14.3 Neuroscience (Integrated Program in) Admission Requirements and Application Procedures

19.11.14.3.1 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.

19.11.14.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.14.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement

19.11.14.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

19.11.14.4 Neuroscience (Integrated Program in) Faculty

Director

J. Nalbantoglu

Associate Director

J. Rochford

Administrator

J. Makkerh; Ph.D.(Camb.)

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.(C'nell), 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*)

C. Benkelfat; M.D., C.S.P.Q., D.E.R.B.H. (*Dept. of Psychiatry*)

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*)

Professors

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*)

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. Guitton; 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*)

Professors

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.(C'nell) (*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*)

H. Schipper; M.D., Ph.D.(McG.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

T. Schultz; M.Phil., Ph.D.(Yale) (*Dept. of Psychology*)

P. Seguela; Doct. 3e Cycle(Bord.), Ph.D.(Montr.) (*Dept. of Neurology and Neurosurgery*)

M. Shevell; B.Sc., M.D.(Vanderbilt) (*Dept. of Neurology and Neurosurgery*)

E. Shoubridge; M.Sc., Ph.D.(Br. Col.) (*Dept. of Neurology and Neurosurgery*)

W. Sossin; B.S.(MIT), Ph.D.(Stan.) (*Dept. of Neurology and Neurosurgery*)

L. Srivastava; Ph.D.(New Delhi) (*Dept. of Psychiatry*)

S. Stifani; Ph.D.(Rome), Ph.D.(Alta.) (*Dept. of Neurology and Neurosurgery*)

M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia) (*Dept. of Psychology*)

G. Tannenbaum; M.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

G. Turecki; M.D.(Brazil), Ph.D.(McG.) (*Dept. of Psychiatry*)

C.-D. Walker; Ph.D.(Geneva) (*Dept. of Psychiatry*)

C. Wolfson; Ph.D.(McG.) (*Dept. of Epidemiology and Biostatistics*)

R.J. Zatorre; A.B.(Boston), M.Sc., Ph.D.(Brown) (*Dept. of Neurology and Neurosurgery*)

Associate Professors

J. Armony; Ph.D.(NYU) (*Dept. of Psychiatry*)

S. Baillet; Ph.D.(Paris-Sud) (*Dept. of Neurology and Neurosurgery*)

S. Beaulieu; M.D., Ph.D., F.R.C.P.(C) (*Dept. of Psychiatry*)

D. Bernard; Ph.D.(Johns Hop.) (*Dept. of Pharmacology*)

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D. Boivin; M.D.(Laval), Ph.D.(Montr.) (*Dept. of Psychiatry*)

D. Bowie; Ph.D.(Lond.) (*Dept. of Pharmacology and Therapeutics*)

A. Brunet; Ph.D.(Montr.) (*Dept. of Psychiatry*)

Associate Professors

M. Cayouette; M.Sc., Ph.D.(Laval) (*Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine*)

N. Cermakian; Ph.D.(Montr.) (*Dept. of Psychiatry*)

Y. Chadusama; B.Sc., Ph.D.(Cardiff) (*Dept. of Psychology*)

F. Charron; B.Sc., Ph.D.(McG.) (*Institut de Recherches Clinique de Montreal, Depts. of Anatomy and Cell Biology, Biology, and Experimental Medicine*)

J.-F. Cloutier; B.Sc.(C'dia), Ph.D.(McG.) (*Depts. of Neurology and Neurosurgery, and Anatomy and Cell Biology*)

T. Coderre; Ph.D.(McG.) (*Dept. of Anaesthesia*)

E. Cook; B.Sc.(Ariz. St.), M.Sc.(Rice), Ph.D.(Baylor) (*Dept. of Physiology*)

A. Dagher; M.Eng.(McG.), M.D.(Tor.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

S. Daniel; M.D.,C.M., M.Sc.(McG.) (*Dept. of Otolaryngology*)

B. Debruille; M.D.(Paris XI), Ph.D.(Univ. Pierre et Marie Curie, Paris) (*Dept. of Psychiatry*)

L. Fellows; B.Sc.(McG.), D.Phil.(Oxf.), M.D.,C.M.(McG.) (*Dept. of Neurology and Neurosurgery*)

C. Flores; Ph.D.(C'dia) (*Dept. of Psychiatry*)

E. Fon; M.D.(Montr.), F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

A. Fournier; B.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

I. Gold; Ph.D.(Princ.) (*Dept. of Psychiatry*)

V. Gracco; Ph.D.(Wisc.) (*School of Communication Sciences and Disorders*)

R. Gruber; Ph.D.(Tel Aviv) (*Dept. of Psychiatry*)

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*)

Associate Professors

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.)

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*)

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. Münter; 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.(C'nell), 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*)

Assistant Professors

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

19.11.14.5 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:

NEUR 695	(3)	Master's Thesis Research 1
NEUR 696	(6)	Master's Thesis Research 2

Required Courses (33 credits)

NEUR 697	(9)	Master's Project Proposal
NEUR 698	(9)	Master's Seminar Presentation
NEUR 699	(12)	Master's Thesis Submission
NEUR 705	(0)	Responsible Research Conduct

and one of the following:

NEUR 610	(5)	Central Nervous System
NEUR 630	(3)	Principles of Neuroscience 1
NEUR 631	(3)	Principles of Neuroscience 2

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.

19.11.14.6 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.

NEUR 630	(3)	Principles of Neuroscience 1
NEUR 700	(0)	Doctoral Candidacy Examination
NEUR 705	(0)	Responsible Research Conduct

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:

NEUR 610	(5)	Central Nervous System
NEUR 631	(3)	Principles of Neuroscience 2

Two courses at the 500, 600, or 700 level, approved by the graduate program adviser.

19.11.15 Occupational Health

19.11.15.1 Location

Department of Epidemiology, Biostatistics and Occupational Health
Purvis Hall
1020 Pine Avenue West
Montreal, QC H3A 1A2
Canada

Website: *www.mcgill.ca/occh*

M.Sc.(A.) (Resident) and Ph.D. programs:

Telephone: 514-398-6258
Email: *graduate.eboh@mcgill.ca*

M.Sc.(A.) (Distance Education) program:

Telephone: 514-398-6989
Email: *distance.occh@mcgill.ca*
Website: *www.mcgill.ca/occh/programs/distance*

19.11.15.2 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.A. (Distance) programs until further notice.

section 19.11.15.5: 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 19.11.15.6: Master of Science, Applied (M.Sc.A.); Occupational Health (Distance) (Non-Thesis) (45 credits)

A three-and-a-half-year program completed mostly over the Internet.

This program is not accepting applicants for 2013–2014.

section 19.11.15.7: Doctor of Philosophy (Ph.D.); Occupational Health

The objective of this program is to train independent researchers in the field of work environment and health.

This program is not accepting applicants for 2013–2014.

19.11.15.3 Occupational Health Admission Requirements and Application Procedures

19.11.15.3.1 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.).

19.11.15.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed 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.

19.11.15.3.2.1 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

19.11.15.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Apr. 30
Winter: N/A	Winter: N/A	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Winter/Summer term admission will not be considered, with the exception of admission as Special Students in the Winter term.

19.11.15.4 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.(C'nell), 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.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

Professors Post-Retirement

A. Lippman; B.A.(C'nell), Ph.D.(McG.)

I.B. Pless; B.A., M.D.(W. Ont.)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

S. Wood-Dauphinee; B.Sc.(Phys.Ther.), Dip.Ed., M.Sc.(A.), Ph.D.(McG.)

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 2014*)

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 College)), M.Sc., Ph.D.(Calif.-San Francisco)

T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop's), Ph.D.(McG.)

J.A. Hanley; B.Sc., M.Sc.(NUI), 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*)

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*)

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 appt. with Pediatrics*) (*on leave Sept. 2013 to Aug. 2014*)

S. Suissa; 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*)

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. Héroux; B.Sc.(Laval), M.Sc., Ph.D.(I.N.R.S.)

A. Labbe; M.Sc.(Montr.), Ph.D.(Wat.) (*joint appt. with Psychiatry*)

E.E.M. Moodie; B.A.(Winn.), Ph.D.(Wash.) (*on leave Aug. 2013 to July 2014*)

M. Pai; M.B.B.S.(Stanley Medical College), M.D.(Christian Medical College), Ph.D.(Calif., Berk.)

J. Pickering; B.A.(Tor.), M.D., M.Sc.(McG.) (*joint appt. with Medicine*)

A. 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. Cox; B.Sc., B.A., M.D.(Dal.), M.Sc.(McG.), C.C.F.P., F.R.C.P.(C)

Assistant Professors

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)

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

Medicine: J. Afilalo, A. Barkun, M. Behr, S. Bernatsky, J. Bourbeau, P. Brassard, A. Clarke, K. Dasgupta, M. Eisenberg, P. Ernst, K. Filion, M. Goldberg, C. Greenaway, S. Kahn, M. Klein, A. Marelli, N. Mayo, N. Pant Pai, L. Pilote, E. Rahme, B. Richards, K. Schwartzman, M. Sewitch, I. Shrier, V. Tagalakis, G. Thanassoulis

Ob/Gyn: H. Abenhaim, R. Gagnon

Oncology: V. Dumeaux

Pathology: B. Case

Pediatrics: M. Ben Shoshan, G. Dougherty, P. Fontela, B. Foster, C. Quach-Thanh, 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, C. Paquette, W. Wood

Adjunct Professors

Asociación Civil Selva Amazónica Peru: M. Casapia

Boehringer Ingleheim GmbH: D. Bartels

Caro Research: J. Caro

Direction régionale de la santé publique: M. Baillargeon, K. Dehaghani, G. Denis, A. Kossowski, R. Lessard, R. Massé, S. Palmieri, S. Perron, M. Roy

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. Siemiatycki

19.11.15.5 Master of Science, Applied (M.Sc.A.); Occupational Health (Resident) (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.

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 605	(6)	Physical Health Hazards
OCCH 608	(3)	Biological Hazards
OCCH 612	(3)	Principles of Toxicology
OCCH 614	(3)	Topics in Occupational Health
OCCH 615	(3)	Occupational Safety Practice
OCCH 616	(3)	Occupational Hygiene

19.11.15.6 Master of Science, Applied (M.Sc.A.); Occupational Health (Distance) (Non-Thesis) (45 credits)

This program is not accepting applicants for 2013-2014.

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.

19.11.15.7 Doctor of Philosophy (Ph.D.); Occupational Health

This program is not accepting applicants for 2013-2014.

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.

19.11.16 Otolaryngology – Head and Neck Surgery

19.11.16.1 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*

19.11.16.2 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 19.11.16.5: 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.

19.11.16.3 Otolaryngology Admission Requirements and Application Procedures

19.11.16.3.1 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).

19.11.16.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

Prospective students should contact research supervisors individually.

19.11.16.3.2.1 Additional Requirements

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

- Personal Statement
- Acceptance by a research supervisor

19.11.16.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: March 15	Fall: March 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: Jan. 15	Summer: Jan. 15	Summer: Jan. 15

19.11.16.4 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. 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)

S. Daniel; M.D.,C.M., M.Sc.(Otol.)(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)

Associate Professors

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)

I. Fried; M.D.(Dal.), 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. Mlynarek; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)

L. Nguyen; M.D.,C.M.(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)

19.11.16.5 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.

19.11.17 Pathology

19.11.17.1 Location

Department of Pathology
Duff Medical Building
3775 University Street
Montreal, QC H3A 2B4
Canada

Telephone: 514-398-7192, ext. 00481 or 00494
Fax: 514-398-7446
Email: *pathologyteaching.med@mcgill.ca*
Website: *www.mcgill.ca/pathology*

19.11.17.2 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.

section 19.11.17.5: 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.

section 19.11.17.6: 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.

19.11.17.3 Pathology Admission Requirements and Application Procedures

19.11.17.3.1 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.

19.11.17.3.2 Application Procedures

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

See *section 11.6.3: 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.

19.11.17.3.2.1 Additional Requirements

- Personal Statement
- Curriculum Vitae
- Research Proposal
- GRE may be required for non-Canadian applicants

19.11.17.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 30	Fall: June 30	Fall: Same as Canadian/International
Winter: Nov. 15	Winter: Sept. 30	Winter: Same as Canadian/International
Summer: March 15	Summer: Feb. 28	Summer: Same as Canadian/International

19.11.17.4 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.M.V. Duncan; B.Sc.(Qu.), Ph.D.(Edin.)

A. Ferenczy; B.A., B.Sc., M.D.(Montr.)

R. Fraser; B.Sc., M.D.,C.M.(McG.), M.Sc.(Glas.), F.R.C.P.(C)

Z. Gao; M.D., M.Sc.(Qingdao), Ph.D.(Peking), F.R.C.P.(C)

D. Haegert; M.D.(Br. Col.), F.R.C.P.(C)

Q.A. Hamid; M.D.(Mosul), Ph.D.(Lond.) (*James McGill Professor*) (*joint appt. with Medicine*)

R.P. Michel; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

J.B. Richardson; B.Sc., M.D.,C.M., Ph.D.(McG.), F.R.C.P.(C)

A. Spatz; M.Sc., M.D.(Paris)

Associate Professors

L. Alpert; M.D., Ph.D.(Tufts)

J. Arseneau; M.D.(Laval), F.R.C.P.(C)

Associate Professors

C. Bernard; M.D.(Sher.), F.R.C.P.(C)

B. Case; B.Sc., M.D.,C.M., M.Sc.(McG.), Dipl. Occ. Hyg., F.R.C.P.(C)

M.F. Chen; M.B., B.S.(Monash), F.R.C.P.(C)

M.-C. Guiot; B.Sc., M.D.(Bordeaux)

T. Haliotis; M.D.(Univ. of Athens), Ph.D.(Qu.), F.R.C.P.(C)

E. Lamoureux; B.Sc., M.D.(Montr.), F.R.C.P.(C)

V.A. Marcus; M.D.,C.M.(McG.), F.R.C.P.(C)

A. Nahal; M.D.(Aleppo)

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)

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 ieganu)

L. Fu; M.D.,C.M.(McG.), M.Sc.(McG.), F.R.C.P.(C)

A. Gologan; M.D.

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.

H. Srolovitz; B.Sc.(Pitt.), M.D.(Basel)

J. St. Cyr; M.D.,C.M.(McG.), F.R.C.P.(C)

Associate Members

C.J. Baglole; M.Sc.(PEI), Ph.D.(Calg.)

M. Divangahi; Ph.D.(McG.)

Associate Members

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)

19.11.17.5 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)

PATH 690	(9)	M.Sc. Thesis Research Project 1
PATH 691	(9)	M.Sc. Thesis Research Project 2
PATH 692	(12)	M.Sc. Thesis Research Project 3

Required Courses (6 credits)

PATH 620	(3)	Research Seminar 1
PATH 622	(3)	Research Seminar 2

Complementary Courses (9 credits)

3 credits, one of the following courses:

PATH 613	(3)	Research Topics in Pathology 1
PATH 614	(3)	Research Topics in Pathology 2

6 credits, two 500-, 600-, or 700-level courses offered by the Department; subject to approval of the research director and Graduate Students Committee, up to 3 credits of 500-, 600-, or 700-level credits may be taken in another department.

19.11.17.6 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)

PATH 613	(3)	Research Topics in Pathology 1
PATH 614	(3)	Research Topics in Pathology 2
PATH 620	(3)	Research Seminar 1
PATH 622	(3)	Research Seminar 2
PATH 701	(0)	Comprehensive Examination - Ph.D. Candidates

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.

19.11.18 Pharmacology and Therapeutics

19.11.18.1 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*

19.11.18.2 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. The participation of researchers from both industry and government ensures the relevance of the Department's applications-oriented training programs.

section 19.11.18.5: 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 19.11.18.6: 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 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 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 19.11.18.7: 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 19.11.18.8: 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.

19.11.18.3 Pharmacology and Therapeutics Admission Requirements and Application Procedures

19.11.18.3.1 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.

19.11.18.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.18.3.2.1 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)

19.11.18.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: March 15
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

Please refer to our website (*www.mcgill.ca/pharma*) for complete deadlines.

19.11.18.4 Pharmacology and Therapeutics Faculty

Chair

G. Multhaup

Graduate Program Director

D. Bowie

Emeritus Professors

R. Capek; M.D., Ph.D.(Prague)

B. Collier; Ph.D.(Leeds)

Emeritus Professors

T. Sourkes; Ph.D.(McG.)

H.H. Zingg; M.D., Ph.D.(McG.)

Professors

G. Almazan; Ph.D.(McG.)

P.B.S. Clarke; M.A.(Camb.), Ph.D.(Lond.)

A.C. Cuello; M.D.(Buenos Aires), M.A., D.Sc.(Oxf.), F.R.S.C.

B.F. Hales; Ph.D.(McG.)

D. Maysinger; Ph.D.(USC)

P.J. McLeod; M.D.(Manit.), F.R.C.P.(C)

G. Multhaup; Ph.D.(Univ. of 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.)

T. Hébert; Ph.D.(Tor.)

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.)

Associate Members

M. Alaoui-Jamali; Ph.D.(Sorbonne)

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)

R. Prichard; Ph.D.(UNSW)

Associate Members

S. Rousseau; Ph.D.(Laval)

Y. Shir; M.D.(Israel), Ph.D.(Johns Hop.)

L. Stone; Ph.D.(Minn.)

M. Ware; M.B.B.S.(West Indies)

T. P. Wong; Ph.D.(McG.)

Adjunct Professors

B. Allen, M. Bruno, S. Chemtob, Y. De Koninck, L. Garofalo, J.M.A. Laird, J. Mancini, K. Meerovitch, G. Miller, T. Sanderson

19.11.18.5 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.

19.11.18.6 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

19.11.18.7 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).

19.11.18.8 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)

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
PHAR 601	(6)	Comprehensive
PHAR 712	(3)	Statistics for Pharmacologists

Complementary Courses (14 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 can replace them 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

two 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

one of the following courses:

CHEM 502	(3)	Advanced Bio-Organic Chemistry
PHAR 503	(3)	Drug Discovery and Development 1

19.11.19 Physiology

19.11.19.1 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*

19.11.19.2 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 19.11.19.5: 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 19.11.19.6: 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 of bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option will be fluent in the concepts, language, approaches, and limitations of the field. The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

section 19.11.19.7: 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 19.11.19.8: 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 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.

19.11.19.3 Physiology Admission Requirements and Application Procedures

19.11.19.3.1 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 approval of the recommendation of the applicant by Enrolment Services, from whom official notification will be received.

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent. Candidates who have completed an M.Sc. may be admitted directly to the Ph.D. program. M.Sc. students interested in a Ph.D. may 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.

19.11.19.3.2 Application Procedures

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

See *section 11.6.3: 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.

19.11.19.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement
- GRE – for applicants whose undergraduate degree is not from a North American university

19.11.19.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: Same as Canadian/International
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

Interested candidates should refer to the Department's website at *www.medicine.mcgill.ca/physio* for details regarding application procedures, as well as other important information.

19.11.19.4 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 Krnjevic; 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*)

C. Polosa

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.)

Professors

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*)

Jacapo P. Mortola; M.D.(Milan)

John Orlowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (*James McGill Professor*)

Premsyl 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)

Riaz Farookhi; B.Sc., M.Sc.(MIT), Ph.D.(Tufts)

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)

Teresa Trippenbach; M.D., Ph.D.(Warsaw)

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

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, Shafaat Rabbani, Mary Stevenson, Elena Torban, Simon Wing, Hans Zingg

Associate Members

Nephrology: Serge Lemay, Tomoko Takano

Neurology: David Ragsdale

Neurology and Neurosurgery: Jack Antel, Massimo Avoli, Charles Bourque, Sal Carbonetto, Daniel Guitton, Christopher Pack, Ed Ruthazer, Amir Shmuel, Melissa Vollrath

Opthamology: Curtis Baker

Otolaryngology: Bernard Segal

Pediatrics: Charles Rohlicek

Pharmacology: Terence Hebert

Psychiatry: Nicolas Cermakian, Bernardo Dubrovsky

19.11.19.5 Master of Science (M.Sc.); Physiology (Thesis) (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)

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

Elective Courses (6 credits)

Students must select 6 approved credits in Physiology or Science at the 500 level or above.

19.11.19.6 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

19.11.19.7 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.

19.11.19.8 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
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

Complementary Courses (6 credits)

6 credits to be 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

19.11.20 Psychiatry

19.11.20.1 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*

19.11.20.2 About Psychiatry

McGill University's Department of Psychiatry is one 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 19.11.20.5: 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.

19.11.20.3 Psychiatry Admission Requirements and Application Procedures

19.11.20.3.1 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.

19.11.20.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.20.3.2.1 Additional Requirements

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

- Personal Statement – describing the specific reasons for seeking a Master of Science degree in Psychiatry
- Letters of Reference – with Applicant Evaluation checklist forms (see Department *website*)
- Written Confirmation of Supervision form (see Department *website*) from the proposed research supervisor

19.11.20.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: March 15	Fall: March 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: Feb. 15	Summer: Jan. 15	Summer: Same as Canadian/International

19.11.20.4 Psychiatry Faculty

Chair

M. Israël

Vice Chairs

D. Charney – *Education*

G. Turecki – *Research*

Chair of Graduate Program

N. Mechawar

Emeritus Professors

F Abbott; B.Sc.(Trent), M.Sc., Ph.D.(McG.)

M.K. Birmingham; B.A.(Bennington), M.Sc., Ph.D.(McG.)

M. Dongier; Dip.Psych.(McG.), M.D.,C.D.(Provence-Aix-Marseilles)

G. Pinard; B.A.(Loyola), Dip. Etud. Sup., M.D.,C.M.(Montr.)

T.L. Sourkes; M.Sc.(McG.), Ph.D.(C'nell)

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.)

M. Cole; B.Sc., M.D.,C.M.(McG.)

S. El Mestikawy; Ph.D.(U. Pierre & Marie Curie)

N. Frasure-Smith; B.A., Ph.D.(Johns Hop.)

S. Gauthier; B.A., M.D.(Montr.)

Professors

B. Giros; M.Sc., Ph.D.(U. Pierre & Marie Curie)

A. Gratton; Ph.D.(C'dia)

L.T. Hechtman; B.Sc., M.D.,C.M.(McG.)

R. Joober; M.D.(France), Ph.D.(Tunisia)

L.J. Kirmayer; B.Sc., M.D.,C.M., Dipl.Psych.(McG.) (*James McGill Professor*)

E. Latimer; B.A.Sc.(Wat.), M.S., Ph.D.(Carn. Mell)

M. Lepage; B.A.(C'dia), Ph.D.(UQAM)

M. Leyton; Ph.D.(C'dia) (*William Dawson Scholar*)

A. Malla; B.S., M.B.(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.)

C. Rousseau; M.Sc.(McG.), M.D.,C.M.(Sher.)

J.J. Sigal; B.A.(Montr.), B.Ed., B.Sc.(Alta.), M.A., Ph.D.(Montr.)

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.)

S.N. Young; B.A.(Oxf.), M.Sc., Ph.D.(Lond.)

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)

P. Beck; B.A.(C'nell), Dip.Psychol.(McG.), M.D.,C.M.(McG.)

V. Bohbot; B.A.(McG.), M.A., Ph.D.(Ariz.)

A. Brunet; Ph.D.(Montr.)

J. Caron; B.A., M.A.(Moncton), Ph.D.(UQAM)

N. Casacalenda; M.D.,C.M.(Sher.)

N. Cermakian; B.Sc.(UQTR), M.Sc., Ph.D.(Montr.)

D. Charney; M.D.,C.M.(McG.)

F. Cramer-Azima; B.A.(Qu.), M.A.(C'nell), Ph.D.(Montr.)

A. Crocker; Ph.D.(Montr.) (*William Dawson Scholar*)

J.B. Debruille; M.D.(Paris), Ph.D.(U. Pierre et Marie Curie)

S. Dongier-Montagnac; M.D.,C.M.(Provence/Aix-Marseille)

B.O. Dubrovsky; M.D.(Buenos Aires)

F. Elgar; M.Sc.(Nfld.), Ph.D.(Dal.)

Associate Professors

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*)

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)

J. Guzder; M.D.,C.M.(McG.)

M. Israël; B.Sc., Gr.Dip.Psych.(McG.), M.A.(Qu.), M.D.,C.M.(McG.)

S. King; M.Ed., Ed.S.(James Madison Univ.), Ph.D.(Virginia Poly. Inst.)

T. Kolivakis; M.D.(Athens)

A. Labbe; M.Sc.(Montr.), Ph.D.(Wat.)

M. Lalinec-Michaud; B.A., M.D.,C.M.(Sorbonne)

K. Looper; B.Sc., M.D.(Ott.), M.Sc.(McG.)

G. Luheshi; Ph.D.(Newcastle) (*William Dawson Scholar*)

N. Mechawar; 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)

M. Perreault; Ph.D.(Montr.)

A. Propst; B.Sc., Dip.Psychol., M.D.,C.M.(McG.)

J. Pruessner; B.Sc., M.Sc., Ph.D.(Trier)

M.N. Rajah; B.Sc., M.A., Ph.D.(Tor.)

R.A. Ramsay; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(McG.)

A. Raz; M.Sc., Ph.D.(Hebrew)

J. Renaud; M.Sc., M.D.(Montr.)

B.M. Robertson; Dip.Psychol.(McG.), M.B.,Ch.B.(Otago)

J. Rochford; M.A.(Qu.), Ph.D.(C'dia)

M. Samy; Ph.D.(McG.), M.B.,Ch.B.(Cairo)

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)

Associate Professors

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)

Assistant Professors

A. Adamantidis; B.Biol., M.Biol., Ph.D.(Liege)

M.P. Adams; B.A.(Laval), Gr.Dip.Psychiat.(McG.), M.D.,C.M.(Sher.)

L. Amirali; M.D.(Univ. of Athens)

S. Bachneff; Dip.Psychol.(McG.), M.D.,C.M.

E. Banon; M.D.,C.M.(McG.)

L. Beauclair; B.Sc., M.D.(Laval)

P. Beaudry; M.D.(Sher.), Dipl.Psych.(McG.)

C. Belanger; B.A.(Ott.), M.A.(Ott.), Ph.D.(Montr.)

D. Belisle; M.D.(Laval)

C. Beneirakis; Gr.Dip.Psychiat.(McG.), M.D.(Trin. Coll.,Tor.)

R. Bergeron; M.D.,C.M.(Sher.)

M. Berlim; M.Med., M.D.(Rio Grande do Sul)

R. Biskin; M.D., M.Sc.(McG.)

P. Bleau; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(Sher.)

D. Bloom; B.Sc.(Regina), M.D.(Qu.)

M. Boily; B.Sc.(Laval), M.D.(Laval)

E.J. Brahm; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(McG.)

M.J. Brouillette; M.D.,C.M.(Sher.)

R. Brown; B.Sc., M.D.,C.M.(McG.)

T.G. Brown; Ph.D.(C'dia)

K. Bruce; Ph.D.(McG.)

J. Canfield; B.A.(New Br.), M.D.,C.M.(Dal.)

P. Cervantes; Dip.Psychol.(McG.), M.D.,C.M.(UAEM)

E. Chachamovich; M.D.(Rio Grande do Sul), Ph.D.(Edin.)

J. Coelho; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)

P. Cote; B.A.(Laval), M.D.,C.M.(Laval/Ott.)

H. Cvejic; M.D.(NUI)

D.P. Dastoor; M.Sc.(Bom.), Ph.D.(C'dia)

M.E. Davis; Dip.Psychol., M.D.,C.M.(McG.)

R. Desautels; B.Sc., M.D.,C.M.(McG.)

J. Desmarais; M.D.,C.M.(McG.)

D.M. Dunkley; B.Sc.(Tor.), Ph.D.(McG.)

M. Elie; B.Sc., M.D.,C.M.(McG.)

J.P. Ellman; B.A.(Col.), M.D.,C.M.(Ott.)

M. Elsabbagh; Ph.D.

C.P. Ernst; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(McG.)

A. Fielding; M.D.,C.M.(McG.)

Assistant Professors

E. Foley; B.Sc.(Tor.)

R.E. Franck; B.A., M.D.,C.M.(McG.)

R. Fraser; B.A., M.D.(Dal.)

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-Marseilles)

M. Habra; B.A.(McG.), M.A., Ph.D.(Br. Col.)

B. Hayton; B.A.(Williams), M.D.,C.M.(McG.)

K. Hyde; B.Sc.(Car.), M.Sc., Ph.D.(Montr.)

F. Ianni; B.Sc.(McG.), M.D.,C.M.(Montr.)

K. Igartua; Dip.Ed., M.D.,C.M.(McG.)

H. Iskandar; Dip.Psychol.(McG.), M.B.,Ch.B.(Alexandria)

G.E. Jarvis; B.M.S., M.D.(Alta.)

C. Jolicoeur; 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)

R. Keller; M.D.,C.M.(Manit.)

M.E. Kiely; B.Ed., B.Sc.(Montr.), M.Sc., Ph.D.(McG.)

R. Kuyumjian; M.D.,C.M.(McG.)

P. Lageix; B.Sc., M.D.,C.M.(Sorbonne)

S. Lamarre; B.A., M.D.,C.M.(Laval)

M. Laporta; Dip.Psychol., M.D.,C.M.(McG.)

L. Laporte; B.A.(McG.), M.Psychol., Ph.D.(Montr.)

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)

S.J. Lloyd; B.A.(McG.)

G.L. Low; B.A.(Qu.), Dip.Psychol.(McG.), M.D.,C.M.(Ott.)

N.C.P. Low; M.D., M.Sc.(McG.)

H. Margolese; B.Sc., M.Sc., M.D.,C.M.(McG.)

T. Measham; B.Sc., M.D.(McG.)

M. Messier; B.A.(Montr.), M.B.A.(HEC)

G. Meterissian; Gr.Dip.Psychiat.(McG.), M.D.,C.M.(Montr.)

T.M. Milroy; B.Sc., M.D.,C.M.(Md.), Gr. Dip. Psychiat.(McG.)

M. Miresco; M.D.,C.M.(McG.)

R. Montoro; M.D.,C.M.(McG.)

L. Nadeau; M.D.(Montr.)

Assistant Professors

H. Olders; B.App.Sc.(Wat.), M.D.,C.M.(McG.)

J.A. O'Neil; B.A.(C'dia), Dip.Psychol., M.D.,C.M.(McG.)

M.A. Ouimet; D.M.D.(Sher.), Gr.Dip.Psychiat.(McG.)

J. Palacios-Boix; M.D.,C.M.(UAM Azcapotzalco)

M. Piat; Ph.D.(Laval)

Z. Prelevic; Dip.Psychol.(McG.), M.D.,C.M.(Belgrade)

B. Presser; Dip.Psychol.(McG.), M.D.,C.M.(Chile)

M. Rabinovitch; B.Sc., M.D.,C.M.(McG.)

P.D.L. Roper; M.D.,C.M.(Glas.)

P. Rosa-Neto; M.D.,C.M.(Rio Grande do Sul)

S.B. Rosenbloom; B.A.(C'dia), M.A.(York)

C. Roy; B.Sc.(McG.), M.D.,C.M.(Dal.)

T. Said; B.Sc.(McG.), M.D.,C.M.(Sher.)

M. Segal; B.A.(C'dia), B.Sc.(O.T.)(McG.), M.D.,C.M.(Ott.)

J. Seguin; B.A., B.Sc., M.D.,C.M.(Ott.)

T. Semeniuk; B.Sc., M.Ed., M.D.,C.M.(Alta.)

M. Sigman; B.A.(McG.), M.A., Ph.D.(C'dia)

S. Singh; B.Sc.(McM.), M.Med.(Calg.)

M.L. Solomon; Dip.Psychol.(McG.), M.D.,C.M.(Qu.)

I. Spector; B.A.(McG.), M.Sc., Ph.D.(Syrac.)

K. Storch; M.Sc.(Munich); Ph.D.(Max Planck Inst. Biochem.)

R. Sullivan; Ph.D.(McM.)

S. Sultan; B.Sc., M.D.,C.M.(McG.)

A. Surkis; B.A.(C'dia), M.A., Ph.D.(Montr.)

N. Szkrumelak; B.Sc., M.D.,C.M.(McG.)

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.)

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)

V. Zicherman; B.Sc., M.D.,C.M.(McG.)

Associate Members

J.L. Derevensky; Ph.D.

A. Evans; Ph.D.

Adjunct Professors

M. Alda; M.D.

P. Blier; M.D., Ph.D.

Adjunct Professors

L. Booij; Ph.D.

W. Brender; Ph.D.

M. Cargo; Ph.D.

A. Duffy; M.D.

R. Fugere; M.D.

A. Gagnon; Ph.D.

V. Kovess-Masfety; M.D., Ph.D.

J-C. Lasry; Ph.D.

F. Lesperance; M.D.

19.11.20.5 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)

PSYT 691	(12)	Thesis Research 1
PSYT 692	(12)	Thesis Research 2
PSYT 693	(12)	Thesis Research 3

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.

19.11.21 Surgery, Experimental

19.11.21.1 Location

Surgery, Experimental
Montreal General Hospital, Room C9-169
1650 Cedar Avenue
Montreal, QC H3G 1A4
Canada

Administrative and Student Affairs Coordinator: Christie Schneider
Telephone: 514-934-1934, ext. 42837
Fax: 514-934-8289
Email: *gradstudies.surgery@mcgill.ca*
Website: *www.mcgill.ca/experimentalsurgery*

19.11.21.2 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 19.11.21.5: Master of Science (M.Sc.); Experimental Surgery (Thesis) (48 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 19.11.21.6: 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.

19.11.21.3 Experimental Surgery Admission Requirements and Application Procedures

19.11.21.3.1 Admission Requirements

M.Sc. Program

Usually a B.Sc., M.D., or D.V.M. degree is required, with a minimum CGPA of 3.2/4.0. Applications will be accepted from candidates sponsored by a research supervisor willing to provide laboratory space, funding, and direction for their research work.

Ph.D. Program

Admission is usually from the M.Sc. program 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.

19.11.21.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

19.11.21.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Research Proposal
- Letter of Intent and Memorandum of Agreement from the prospective Thesis Supervisor

19.11.21.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: Apr. 20	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 1	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

19.11.21.4 Surgery, Experimental Faculty

Director

A. Philip

Associate Director

L. Haglund

Professors

J. Antoniou; M.D.,C.M., Ph.D.(McG.), F.R.C.S.(C)

A. Aprikian; M.D.(Sher.), F.R.C.S.(C)

J. Barkun; M.D., M.Sc.(McG.)

Professors

J. Barralet Beng; Ph.D.(Lond.)

J.D. Bobyn; B.Sc., M.Sc.(McG.), Ph.D.(Tor.)

P. Brodt; B.Sc.(Bar-Ilan), M.Sc.(Ott.), Ph.D.(McG.)

R.C.-J. Chiu; M.B.(Taiwan), Ph.D.(McG.)

N.V. Christou; B.Sc., M.Sc., Ph.D., M.D.,C.M.(McG.)

M.M. Elhilali; M.B., B.Ch., D.S., DU, M.Ch.(Cairo), Ph.D.(McG.)

L. Feldman; M.D.,C.M., M.Sc.(McG.)

G.M. Fried; B.Sc., M.D.,C.M.(McG.)

F. Glorieux; M.D.(Louvain), M.Sc.(Montr.), Ph.D.(McG.)

P.H. Gordon; M.D.(Sask.)

R. Hamdy; M.Sc., M.D.(Egypt), F.R.C.S.(C)

E. Harvey; B.Sc.(Ont.), M.D.,C.M., M.Sc.(McG.)

J.E. Henderson; Ph.D.(McG.)

J.M. Laberge; M.D.(Laval)

S. Meterissian; M.D.,C.M., M.Sc.(McG.)

D.S. Mulder; M.D.(Sask.), M.Sc.(McG.)

A. Philip; M.Sc., Ph.D.(McG.)

L. Rosenberg; M.Sc., M.D., Ph.D.(McG.)

P.J. Roughley; B.Sc., Ph.D.(Nott.)

R. St. Arnaud; Ph.D.(Laval)

M. Tanzer; M.D.,C.M.(McG.), F.R.C.S.(C)

C.I. Tchervenkov; B.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)

R. Turcotte; M.D.(Montr.)

Associate Professors

M. Basik; M.D.,C.M., M.Sc.(McG.)

O. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.)

S. Chevalier; B.Sc., M.Sc., Ph.D.(Montr.)

P. Chan; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C)

R. Cecere; M.D.,C.M., B.Sc.(McG.), F.R.C.S.(C), A.B.S., F.A.C.S.

M. Chevrette; B.Sc., M.Sc., Ph.D.(Laval)

S. Emil; M.D.,C.M.(McG.), F.R.C.S.(C)

L. Ferri; M.D.,C.M., M.Sc.(McG.)

D. Fleiszer; 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. Metrakos; 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)

Associate Professors

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)

J. Chen; B.Sc.(Chin. Acad. Sci.), Ph.D.(Guelph)

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)

A.D. Recklies; B.Sc.(McG.), Ph.D.(McM.)

N. Saran; M.D., B.Sc.(Br. Col.)

K. Shaw; M.D.,C.M., M.Sc.(McG.)

19.11.21.5 Master of Science (M.Sc.); Experimental Surgery (Thesis) (48 credits)

Thesis Courses (33 credits)

EXSU 690	(4)	M.Sc. Research 1
EXSU 691	(4)	M.Sc. Research 2
EXSU 692	(4)	M.Sc. Research 3
EXSU 693	(21)	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, one graduate-level course in the student's specialty, selected in consultation with the Research Supervisory Committee.

Depending on their individual background, students may be asked by their Research Supervisory Committee to take additional courses.

19.11.21.6 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)

EXSU 601	(6)	Knowledge Management
EXSU 605	(3)	Biomedical Research Innovation
EXSU 606	(3)	Statistics for Surgical Research
EXSU 700	(0)	Comprehensive Examination

Complementary Course (3 credits)

One graduate-level course in the student's specialty, selected in consultation with the Research Supervisory Committee.

20 Ingram School of Nursing

20.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

20.4 Graduate Studies at a Glance

20.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.

Faculty of Engineering	Degrees Available
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.

Faculty of Science	Degrees Available
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

20.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

20.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
		Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis)
		Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis)
		Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences

Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment

Master of Science (M.Sc.)

Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

20.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

20.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.		
The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music

Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education

Doctor of Philosophy (Ph.D.)		
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine

***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Urban Planning	N/A	Faculty of Engineering

20.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

20.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

20.5 Program Requirements

20.5.1 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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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*.

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 studies must be approved by GPS before registration. Double counting is not permitted.

20.6 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 permits. 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.

20.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

20.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

20.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

20.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

20.6.4 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* 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*.

20.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*

Competency in English		
86 overall (no less than 20 in each of the four component scores) N.B. an institutional version of the TOEFL is not acceptable.	550	* The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

20.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

20.6.7 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.

20.6.8 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.

20.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

20.6.10 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.

Revised – Council of February 9, 2004.

20.6.11 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.

20.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure

under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

20.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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

20.11 Academic Programs

The programs and courses in the following sections have been approved for the 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

20.11.1 Nursing

20.11.1.1 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*

20.11.1.2 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

There are two points of entry into the M.Sc.(A.) program with the exception of Nurse Practitioner (which has its own entry streams outlined under *section 20.11.1.2: Nurse Practitioner*):

- Non-nurse applicants entering with a general B.A. or B.Sc. (Direct-Entry Applicant)—three years full time—for more information on the M.Sc.(A.) Direct-Entry, visit the Ingram School of Nursing website at *www.mcgill.ca/nursing/programs/msca-direct-entry*.
- Nurse Bachelor Entry—two years full time—for more information on the M.Sc.(A.) Nurse Bachelor Entry, visit the Ingram School of Nursing website at *www.mcgill.ca/nursing/programs/msca*.

M.Sc.(A.) Program – Areas of study

Students entering the master's program may select between two areas of study. The clinical stream is intended to prepare students for clinical nurse specialists or nurse practitioner roles in selected areas. The adjunct area is available for students wishing to plan an individual program of study in such areas as nursing administration, education, or global health.

Clinical Nurse Specialist

M.Sc.(A.) Direct-Entry and Nurse Bachelor Entry students both have access to the Clinical Nurse Specialist area of study. Students will develop their knowledge of both qualitative and quantitative research methods, engage in a systematic study of nursing problems, and disseminate knowledge relevant to clinical practice. Career opportunities include family health, cancer care, neuroscience nursing, or critical care.

Global Health Studies

This option is available to both Direct-Entry and Nurse Bachelor Entry students. This area of study provides students with global health content throughout the program. In their final year, students complete both clinical and project based components in a global health placement during one semester. Global Health prepares nurses for the challenges of working with diverse populations in limited resource environments. The philosophy stresses the importance of understanding the inherent power dynamics, equity issues, and ethical dilemmas that arise.

Nursing Services Administration

Open to both Direct-Entry and Nurse Bachelor Entry students, Nursing Services Administration was developed to allow students to pursue their interest in this area of study. Nurses trained to develop the capacity to assess the factors that impact upon and determine the nursing workforce. This will enable them to make strategic and effective decisions, and influence policy change with regard to the planning and management of the nursing workforce.

Education

This option is available to Nurse Bachelor Entry students. This area of study exposes students 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.

Nurse Practitioner

The Nurse Practitioner role is new to Quebec, but has been part of North American health care for quite some time. Advanced practice nurses are being asked to take on nurse practitioner roles in which they 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 Ingram School of Nursing offers two specialities within the Nurse Practitioner area of study: neonatology and primary care.

The Nurse Practitioner in Neonatology focuses on the care of newborns across the spectrum of complexity, from tertiary-level care through the first years following birth. The coursework is highly concentrated within the area of specialization.

The Nurse Practitioner in Primary Care assumes responsibility for physical assessment and treatment of stable patients. The Primary Care Nurse Practitioner works with patients of all ages with a variety of health concerns.

Point of entry for Nurse Practitioner – applicants with a B.Sc.(N.) or B.N. Degree

Nurse-applicants to the Nurse Practitioner streams of study in the master's degree program must have completed a bachelor's degree comparable to the undergraduate degrees offered at the Ingram School of Nursing (minimum 66 university credits, includes 12 credits in the biological sciences) with a minimum GPA of 3.2/4.0 in previous nursing studies. Applicants must have completed at least two years of practice in clinical fields related to the specialty area within the last five years. An introductory Statistics course (3 credits) is required prior to admission to the program.

All nurse applicants are expected to hold current and full Quebec licensure.

For Nurse Practitioner Primary Care students, only the first year of the program can be taken part-time. The subsequent year must be taken full-time.

Students entering with one of these undergraduate degrees will complete the nurse practitioner stream of study in the Master’s of Science (Applied) program (45 credits) and the post-master’s Graduate Diploma (30 credits) in Primary Care or the Graduate Diploma in Neonatology.

Point of entry for Nurse Practitioner – applicants with a master's degree in nursing

Applicants entering with a master's degree in nursing must have completed a bachelor's degree comparable to the undergraduate degrees offered at the Ingram School of Nursing (minimum 66 university credits, includes 12 credits in the biological sciences) with a minimum GPA of 3.2/4.0 in previous nursing studies.

Applicants must have completed at least two years of practice in clinical fields related to the specialty area within the last five years. Applicants are expected to hold current and full Quebec licensure.

Students entering with a master's degree in nursing are required to complete a Graduate Certificate (15 credits) in Theory in Primary Care or Theory in Neonatology, followed by the post-master's Graduate Diploma (30 credits) in Primary Care or the Graduate Diploma in Neonatology.

N.B. Depending on the nature of courses previously completed in their master's degree, students will register first as Special Students and complete 6–12 additional credits to prepare for entry to the Graduate Certificate programs.

section 20.11.1.5: Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) (58 credits)

The objective of this program is to prepare specialists in nursing to be able to participate in the development, implementation, and management of services in all domains of health care. Opportunity is provided for the advanced clinical study of nursing, and for incorporating research and evaluation methods in the investigation of nursing issues.

section 20.11.1.6: 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 20.11.1.7: 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 20.11.1.8: 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 20.11.1.9: 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 20.11.1.10: 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 20.11.1.11: 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.

20.11.1.3 Nursing Admission Requirements and Application Procedures

20.11.1.3.1 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 – *www.ets.org/toefl*) or IELTS (International English Language Testing Systems – *www.ielts.org*) 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 2.15: 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

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 apply to the master's program. Persons prepared in another professional discipline or in nursing are not eligible for this 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 OIIQ 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 OIIQ licensure eligibility criteria, please contact the OIIQ 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 20.11.1.10: Doctor of Philosophy (Ph.D.); Nursing* for details) depending upon their admission year.

20.11.1.3.2 Registration and Regulations

Official registration through Minerva must be completed prior to the Orientation Session in August. Students registering late for reasons unrelated to the admission procedure are subject to the late payment fee.

New students will be notified by the Ingram School of Nursing regarding the Advising/Orientation session held at the end of August. Information related to the selection of the elective courses will also be provided by the Ingram School of Nursing.

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.

OIIQ 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/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 OIIQ before they can have access to clinical placements. Students who have not completed the registration procedure cannot commence clinical studies.
- Students must have met the vaccination/immunization requirements prior to commencing clinical studies in September.
- Students are required to purchase equipment such as a stethoscope and physical-assessment equipment. Information is provided at registration or within specific courses.
- Students are expected to demonstrate professional behaviour at all times. The Code of Ethics for Nurses and the McGill University Code of Student Conduct (as outlined in the *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.

20.11.1.3.3 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

For information on the application process as well as the supporting documents required in addition to the Minerva online application, please visit our Nursing website at *www.mcgill.ca/nursing/programs/application-graduate-programs*, then search for your program of study.

20.11.1.3.3.1 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.

20.11.1.3.4 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Feb. 15	Fall: Jan. 15 (except Nurse Practitioner program: N/A)	Fall: Same as Canadian/International
Winter: N/A (except Nurse Bachelor's Entry M.Sc.(A.) program: Sept. 30 – Must contact the	Winter: N/A	Winter: Same as Canadian/International

Canadian	International	Special/Exchange/Visiting
Graduate Admissions Coordinator prior to submitting a Minerva application.)		
Summer: N/A (except Primary Care and Neonatology Graduate Diploma programs: Jan. 15)	Summer: N/A	Summer: N/A

20.11.1.4 Nursing Faculty

Vice-Principal (Health Affairs) and Dean of the Faculty of Medicine

David H. Eidelman; M.D.,C.M.(McG.), F.R.C.P.(C), FACP

Associate Dean, Faculty of Medicine, and Director, Ingram School of Nursing

Hélène Ezer

Assistant Director, Ingram School of Nursing, and Graduate Programs Director

Franco Carnevale

Assistant Director, Ingram School of Nursing, and Ph.D. Program Director

Margaret Purden

Director, Nursing Collaborative

Sean P. Clarke

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)

Professors

Franco Carnevale; N., B.Sc.(N.), M.Sc.(A.), M.Ed., Ph.D.(McG.)

Sean P. Clarke; N., B.A.(Car.), B.Sc.(Ott.), M.Sc.(A.), Ph.D.(McG.), FAAN, Post Doc.(Penn.)

Nancy Frasure-Smith; B.A., Ph.D.(Johns Hop.) (*part-time*)

Laurie N. Gottlieb; N., B.N., M.Sc.(A.), Ph.D.(McG.) (*Shaw Professor of Nursing*)

Associate Professors

Antonia Arnaert; N., M.P.H.(Catholic U. of Leuven, K.U.L.), M.P.A.(EHSAL), Ph.D.(K.U.L.)

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.)

Anita J. Gagnon; N., B.Sc.(N.), M.P.H., Ph.D.(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.)

Assistant Professors

Marcia Beaulieu; N., B.Sc., M.Sc.(A.), Ph.D.(McG.)

Madeleine M. Buck; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Céline Gélinas; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(McG.)

Catherine P. Gros; N., B.Sc.(Mass.), M.Sc.(A.)(McG.) (*part-time*)

Assistant Professors

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.)

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*)

Heather D. Hart; N., B.Sc.(N.)(W. Ont.), B.Ed.(Bran.), M.Sc.(A.)(McG.) (*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.)

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.)

Renata Benc; N., B.A., M.Sc.(A.)(McG.)

Laura Bergmame; 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.)

Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Josée Bouchard; N., B.N.(Montr.)

Danielle Brandys; N., B.Sc.(N.)(McG.)

Theresa Broda; N., B.Sc.(N.)(McG.), B.Sc.(N.)(Ott.)

Jane Chambers-Evans; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Sophie Charland; N., IPS-PL, B.Sc.(N.), M.Sc.(Montr.)

Annie Chevrier; N., B.N.(I.), M.Sc.(A.)(McG.)

Lynne Chlala; B.A., L.L.B.(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.)

Kimani Daniel; N., B.Sc., M.Sc.(A.)(McG.)

Allison Davis; N., B.Sc.(N.)(McG.)

Jessica DiNardo; N., B.Sc.(N.)(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.)

Véronique Fraser; N., B.A.(Dal.), M.Sc.(A.)(McG.)

Contracted Faculty (part-time)

Cynthia Graham-Certosini; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Marie-Josée Guy; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Oxana Kapoustina; N., B.Sc., M.Sc., M.Sc.(A.)(McG.)

Tieghan Killackey; N., B.Sc.(N.)(McG.)

Donna Kindrat; N., B.Sc.(N.)(Ott.)

Julia Kinnon-Shaw; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Anne-Marie Lanctôt; N., B.A., M.Sc.(A.)(McG.)

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.)

Caroline Marchionni; N., B.Sc.(McG.), M.Sc.(John M.), M.Sc.(A.)(McG.)

Cindy McCartney; N., B.Sc.(N.)(Br. Col.)

Linda McHarg; N., B.N., M.Ed.(McG.), Ph.D.(Montr.)

Maryse Melançon-Dubois; N., B.Sc.(N.)(Laval)

Yannick Mélançon-Laître; N., B.N.(UQAT), M.Sc.(A.), Grad.Dip.(NP-PC)(McG.)

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.)

Karina Olivo; N., B.N.(Manit.)

Mary Owen; N., B.A.(C'dia), B.Sc.(N.)(Br. Col.)

Silvia Pistagnesi; N., B.Sc.(N.), M.Sc.(A.)(McG.)

Joanne Power; N., B.Sc.(N.)(PEI), M.Sc.(N.)(Ott.)

Christine Prchal; N., B.A.(Dal.), M.Sc.(A.)(McG.)

Ramona Rodrigues; N., B.Sc., M.Sc.(A.)(McG.)

Marcia Ryan; N., B.Sc.(N.)(Ott.)

Vanessa Sam; N., B.Sc.(N.)(McG.)

Irene Sarasua; N., B.A.(Tor.), M.Sc.(A.)(McG.)

Sarah Shea; N., B.Sc.(N.)(McG.)

Joyce Sorochinsky; N., B.Sc.(N.)(McG.)

Anna Tazian; N., B.Sc.(N.), M.P.H.(Beirut)

Brett Thombs; B.A.(N'western), M.A.(Ariz.), M.A., Ph.D.(Fordham), Post Doc.(Johns Hop.)

Chrisouli Tzortzis; N., B.N.(I.)(McG.)

Nicholas Vaccariello; N., B.Sc.(N.)(McG.)

Gerald van Gurp; B.A., M.D.,C.M.(Dal.)

Catherine Vanier; N., B.N.(I.)(McG.)

Elodie Viau; N., B.Sc.(N.)(Sher.)

Cania Vincelli; N., B.N., M.Sc.(N.)(Montr.)

Linda Ward; N., B.Sc.(Inf.)(Montr.), M.Sc.(A.)(McG.)

Barbara Webster; N., B.Sc.(N.)(Ott.), M.Sc.(A.)(McG.)

Stephanie Welsh; N., B.Sc.(N.)(Ott.)

David Wright; N., B.Sc., M.Sc.(A.)(McG.), Ph.D.(c)(Ott.)

Contracted Faculty (part-time)

Rosanna Zappavigna; N., B.Sc.(N.), M.Ed.(McG.)

Nadia Zouari; N., B.N.(I.)(McG.)

McGill University Health Centre (MUHC)

Lachine Hospital & Camille-Lefebvre Pavillion

Montreal Chest Institute

Montreal Children’s Hospital

Montreal General Hospital

Montreal Neurological Institute

Royal Victoria Hospital

McGill University Teaching Hospitals and Affiliated Centres (MUTHC)

Douglas Mental Health University Institute

Jewish General Hospital

Shriner’s Hospital for Children

St. Mary’s Hospital Centre

Other Teaching Centres

Addington Addiction Centre

Batshaw Youth and Family Centre

Cambridge Residence

Concordia University Health Clinic

CSSS Ahuntsic-Montreal Nord

CSSS Bordeaux-Cartierville-St. Laurent

CSSS Cavendish (CLSC NDG-MTL Ouest, CLSC René Cassin, Henri-Bradet 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-Rousillion (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 Centre

Jewish Rehabilitation Hospital

Kateri Memorial Hospital

Maimonides Hospital Geriatric Centre

Manoir Montefiore

Manoir Westmount

Mount Sinai Hospital

Salvation Army Montclair Residence

Ste. Anne's Veteran Hospital

Tiny Tots Medical Centre

Tulattavik Health Centre Kuujjuaq

Other Teaching Centres

Waldorf Residence

West Island Palliative Care Residence

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

20.11.1.4.1 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, Margaret Eades, Linda Edgar, Lucia Fabijan, Valerie Frunchak, Mary Grossman, Andrea Laizner, Ariella Lang, Virginia Lee, Diane E. Lowden, Ann Lynch, Linda McHarg, Anita Mehta, Michelle Nadon, Patricia O'Connor, Hélène Racine, Janet Rennick, Marie-Claire Richer, Christian Rochefort, Andreanne Saucier, Charles Sounan, Linda Ward

Faculty Lecturers

Deborah Abner, Rosetta Antonacci, Nathalie Aubin, Sophie Baillargeon, Linda Bambonye, Denise Bédard, Judy Bianco, Jacqueline Bocking, Johanne Boileau, Linda P. Boisvert, Diane Borisov, Rose Boyle, Diane Brault, Krista Margaret Brecht, Sharon Brissette, Susan Marie Buddo, Kathryn Carnaghan-Sherrard, Isabelle Caron, Sophie Charland, Annie Chevrier, Luisa Ciofani, Martine Claveau, Hermes Cornejo, Joann Creager, Esther Dajczman, Julie Dallaire, Mark Daly, Kimani Daniel, Rose Deangelis, Hélène Deutsch, Nancy Drummond, Lynda Egglefield Beaudoin, Jessica Emed, Julie Fréchette, Maryse Godin, Iris Gourdji, Cynthia Graham-Certosini, Maria Hamakiotis, Norine M. Heywood, Claire Jabbour Nehme, Tara Jesion, Rosalie Johnson, John Kayser, Krystyna Kouri, Danièle Lamarche, Philippe Lamer, Anne Marie Lanctôt, Pina LaRiccia, Rachel Lomas, Althea Hazel McBean, Yannick Mélançon-Laître, Marjorie Montreuil, Sharon Mooney, Linda Morneault, Louise Murray, Maritza Obando Paredes, Catherine Oliver, France Paquet, Maxime Paquet, Joanne Power, Andréanne Robitaille, Nathalie Rodrigue, Ramona Rodrigues, Patricia Rose, Christina Rosmus, Irene Sarasua, Maryse Savoie, Eleanor Scharf, Melanie Sheridan, Jessica Sherman, Marie Jennifer Somera, Rosa Sourial, Isabelle St-Sauveur, Janice Karen Stephenson, Susan Takahashi, Gillian Taylor, Anna Tazian, Claire Thibault, Kelly Thorstad, Geneviève Tousignant, Lucie Tremblay, Cania Vincelli, Antoinetta Vitale, Lucy Wardell, David Wright, Rosanna Zappavigna

Adjunct Professor

Bruce Gottlieb

Associate Members

Nabeel Ali, Rhonda Amsel, S. Robin Cohen, Jae-Marie Ferdinand, Ronald D. Gottesman, Mary Ellen Macdonald, Brett Thombs, Gerald van Gurp

Affiliate Members

Stephanie Allain, Claudine Allard, Joyce Marie Arsenault, John Atkins, Theresa Broda, Daniel Carpenter, Oriliz Cuffaro, Antoinette Ehrler, Suzie Gagnon, Micheline Gaudet, Celestine Kamdon, Donna Kindrat, Sheila Koutsogiannopoulos, Linda Mai Lee, Catherine Lloyd, Farah Michel, Chantal Souligny, Vida Stibernik, Marika Swidzinski, Diana Taddeo, Barbara Ann Taugher, Teresa Testa

20.11.1.5 Master of Science, Applied (M.Sc.A.); Nursing (Non-Thesis) (58 credits)

(45-58 credits)

This program has six streams: the Nurse Bachelor Entry (Adjunct) program comprising 50 credits; the Nurse Bachelor Entry (Clinical) program comprising 49 credits; the Direct-Entry (Clinical) program comprising 55 credits; the Direct-Entry (Global Health Studies) program comprising 58 credits; the Nurse Bachelor Entry (Global Health Studies) program comprising 51 credits; and the Nurse Bachelor Entry (Nurse Practitioner) comprising 45 credits.

Note: For further information about the required courses in the Qualifying year of the Direct-Entry programs, please see the Nursing website at http://www.mcgill.ca/nursing/programs/msca-direct-entry/courses.

Required Courses - All Streams (18 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 626	(3)	Professional Issues in Nursing
NUR2 642	(3)	Ethics in Advanced Practice

Complementary Courses (40 credits)

(27-40 credits)

37 credits - Direct-Entry students (Clinical)

31 credits - Nurse-Bachelor Entry students (Clinical)

27 credits - Nurse-Bachelor Entry students (Nurse Practitioner)

31 credits - Nurse-Bachelor Entry students (Adjunct)

40 credits - Direct Entry students (Global Health Studies)

33 credits - Nurse-Bachelor Entry students (Global Health Studies)

Students should consult with the Program Adviser regarding the recommended courses for each stream of study. Students take the appropriate number of credits from the following list of courses:

* Note: Students may take NUR2 644 or NUR2 645 or NUR2 646 or NUR2 647.

NUR2 516	(3)	Perspectives on Global Health
NUR2 613D1	(3)	Clinical Practicum
NUR2 613D2	(3)	Clinical Practicum
NUR2 614D1	(3)	Clinical Laboratory - Nursing 1
NUR2 614D2	(3)	Clinical Laboratory - Nursing 1
NUR2 615	(3)	Health Care Evaluation
NUR2 616	(4)	Advanced Clinical Skills
NUR2 623	(3)	Clinical Assessment and Therapeutics
NUR2 624	(4)	Clinical Laboratory in Nursing 2
NUR2 625	(6)	Clinical Laboratory in Nursing 3
NUR2 627	(3)	Nursing Practicum
NUR2 628	(4)	Advanced Assessment
NUR2 629	(4)	Nursing Administration Stage
NUR2 630	(3)	Clinical Project 1
NUR2 631	(3)	Clinical Project 2
NUR2 632	(2)	Clinical Project 3
NUR2 640	(3)	Clinical Reasoning 1
NUR2 641	(3)	Clinical Reasoning 2
NUR2 643	(3)	Role Development
NUR2 644*	(3)	Special Topics 1
NUR2 645*	(3)	Special Topics 2
NUR2 646*	(3)	Special Topics 3
NUR2 647*	(3)	Special Topics 4

NUR2 660	(4)	Reasoning in Neonatology 1
NUR2 661	(4)	Reasoning in Neonatology 2
NUR2 662	(3)	Reasoning in Neonatology 3
NUR2 663	(3)	Neonatology Clinical Project
NUR2 664	(4)	Neonatal Health Assessment
NUR2 665	(4)	Newborn Internship
NUR2 670	(3)	Reasoning in Primary Care 1
NUR2 671	(3)	Reasoning in Primary Care 2
NUR2 672	(4)	Reasoning in Primary Care 3
NUR2 673	(4)	Reasoning in Primary Care 4
NUR2 674	(4)	Reasoning in Primary Care 5

or any other graduate-level courses in consultation with the Faculty Adviser.

20.11.1.6 Graduate Certificate; Theory in Neonatology (15 credits)

Required Courses (15 credits)

NUR2 628	(4)	Advanced Assessment
NUR2 660	(4)	Reasoning in Neonatology 1
NUR2 661	(4)	Reasoning in Neonatology 2
NUR2 662	(3)	Reasoning in Neonatology 3

20.11.1.7 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.

Required Courses (15 credits)

NUR2 671	(3)	Reasoning in Primary Care 2
NUR2 672	(4)	Reasoning in Primary Care 3
NUR2 673	(4)	Reasoning in Primary Care 4
NUR2 674	(4)	Reasoning in Primary Care 5

20.11.1.8 Graduate Diploma in Neonatal Nurse Practitioner (30 credits)

Required Courses (30 credits)

NUR2 650D1	(11)	Neonatology Internship
NUR2 650D2	(11)	Neonatology Internship
NUR2 661	(4)	Reasoning in Neonatology 2
NUR2 666	(4)	Neonatal Follow-Up Internship

20.11.1.9 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)

NUR2 651D1	(11)	Primary Care Internship
NUR2 651D2	(11)	Primary Care Internship
NUR2 675	(4)	Reasoning in Primary Care 6
NUR2 676	(4)	Primary Care Assessment

20.11.1.10 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:

NUR2 703	(3)	Issues of Measurement
NUR2 730	(3)	Theory Development in Nursing

Selected courses (Statistics, complementary, or substantive courses).

Ph.D. Schedule B:

NUR2 702	(3)	Quantitative Research
NUR2 780	(3)	Advanced Nursing

Selected courses (Statistics, complementary, or substantive courses).

Semester Following Completion of Coursework:

NUR2 701	(1)	Comprehensive Examination

Note: A minimum of 3 credits in advanced statistics and substantive courses is planned with the thesis supervisor.

20.11.1.11 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

NUR2 701	(1)	Comprehensive Examination
NUR2 702	(3)	Quantitative Research
NUR2 703	(3)	Issues of Measurement
NUR2 705	(3)	Palliative Care
NUR2 730	(3)	Theory Development in Nursing
NUR2 780	(3)	Advanced Nursing
NUR2 783	(3)	Psychosocial Oncology Research

Selected course(s) (Statistics)*

*Note: A minimum of 3 credits in advanced statistics.

Complementary Courses

One of the following courses:

PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 753	(3)	Health Psychology Seminar 1
SWRK 609	(3)	Understanding Social Care
SWRK 668	(3)	Living with Illness, Loss and Bereavement

21 School of Physical and Occupational Therapy

21.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

21.4 Graduate Studies at a Glance

21.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.

Faculty of Engineering	Degrees Available
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.

Faculty of Science	Degrees Available
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

21.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.

Degree		Prerequisites
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

21.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
		Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis)
		Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis)
		Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences

Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment

Master of Science (M.Sc.)		
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A

Master of Science, Applied (M.Sc.A.)		
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A
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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A
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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

21.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

21.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus.		
The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music

Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education

Doctor of Philosophy (Ph.D.)		
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine

***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Urban Planning	N/A	Faculty of Engineering

21.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

21.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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#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 studies must be approved by GPS before registration. Double counting is not permitted.

21.6 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 permits. 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.

21.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

21.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

21.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

21.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

21.6.4 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* 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*.

21.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*

Competency in English		
86 overall (no less than 20 in each of the four component scores) N.B. an institutional version of the TOEFL is not acceptable.	550	* The CBT is no longer being offered and CBT results are no longer considered valid, or being reported by ETS.

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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least “Pass.”
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

21.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

21.6.7 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.

21.6.8 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.

21.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

21.6.10 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.

Revised – Council of February 9, 2004.

21.6.11 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.

21.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure

under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

21.11.1 Physical and Occupational Therapy

21.11.1.1 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.)

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Director's Academic Associate – Sarah C. Marshall; B.Sc.(P.T.), M.Sc.(McG.)

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Academic Director, Physical Therapy – Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)

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Academic Associate Director, Occupational Therapy – Aliki Thomas; B.Sc.(O.T.), M.Ed., Ph.D.(McG.)

Directors

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Email: *graduate.rehabilitation@mcgill.ca*

Academic Associate Director, Graduate Program – Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)

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21.11.1.2 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: Assessing Driving Capabilities 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 21.11.1.5: 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 21.11.1.6: 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 21.11.1.7: Master of Science, Applied (M.Sc.A.); Physical Therapy (Non-Thesis) (58 credits)

The Master of Science (Applied) in Physical 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, 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 21.11.1.8: 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 21.11.1.9: 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 21.11.1.10: Graduate Certificate in Assessing Driving Capabilities (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 21.11.1.11: Graduate Certificate in Chronic Pain Management (15 credits)

Please contact the Department for more information about this program.

21.11.1.3 Physical and Occupational Therapy Admission Requirements and Application Procedures

21.11.1.3.1 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 International English Language Testing System (IELTS) with a minimum overall band score of 7.0. For more information, please refer to the following website: *www.ielts.org*.
5. A Graduate Records Examination (GRE) 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. For more information, please refer to the following website: *www.ets.org/gre*.

   Applicants must ensure that official test results are sent to McGill University directly by the testing service. Applications cannot be considered if test results are not available.

If a graduate student accepted into the M.Sc. program demonstrates superior performance in the first year, the Graduate Committee, in consultation with the thesis supervisor, may recommend waiving the M.Sc. thesis requirement, and allow the student to proceed directly to the Ph.D. program.

M.Sc. in Rehabilitation Science (Non-Thesis)

1 to 5 as above; plus two years of clinical experience is recommended.

Qualifying Year for Entry into M.Sc.A. (O.T.)

1. An undergraduate degree or equivalent 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 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 International English Language Testing System (IELTS) with a minimum overall band score of 7.0. For more information, please refer to the following website: *www.ielts.org*.
4. A Graduate Records Examination Test (GRE) 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.

   For more information, please refer to the following website: *www.ets.org/gre*.

Applicants must ensure that official test results are sent to McGill University directly by the testing service. Applications cannot be considered if test results are not available.

Graduate Certificate in Assessing Driving Capabilities

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 3, 4, and 5 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.

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 11.6.3: 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:

- Curriculum Vitae – (except for M.Sc.A. (O.T.), M.Sc.A. (P.T.))
- For M.Sc. in Rehabilitation Science (Thesis and Non-Thesis) and Ph.D. in Rehabilitaiton 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 more information, please refer to the following website: *www.ets.org/gre*.
- For M.Sc. in Rehabilitation Science (Non-Thesis): two years of clinical experience is recommended.

21.11.1.3.3 Application Deadlines

Qualifying Year M.Sc.A.		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Feb. 15	Fall: Jan. 15	Fall: Same as Canadian/International
Winter: N/A	Winter: N/A	Winter: N/A
M.Sc.A. (O.T.) and M.Sc.A. (P.T.)		
Canadian	**International**	**Special/Exchange/Visiting**
Summer: Jan. 15	Summer: Jan. 15	Summer: Jan. 15
Graduate Certificate in Assessing Driving Capabilities		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: June 15	Fall: March 15	Fall: Same as Canadian/International
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A
Graduate Certificate in Chronic Pain Management		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: June 15	Fall: March 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Oct. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A
Rehabilitation Science		
Canadian	**International**	**Special/Exchange/Visiting**
Fall: Jan. 31	Fall: Jan. 31	Fall: Jan. 31
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Winter term admission will not be considered (except for Graduate Certificate in Chronic Pain Management).

21.11.1.4 Physical and Occupational Therapy Faculty

Director and Associate Dean

Annette Majnemer

Director's Academic Associate

Sarah C. Marshall

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)

Sharon Wood-Dauphinee; B.Sc.(P.T.), Dip.Ed., M.Sc.A., Ph.D.(McG.)

Professors

Hugues Barbeau; B.Sc.(P.T.), M.Sc., Ph.D.(Laval) (*on leave*)

Nicol Korner-Bitensky; B.Sc.(O.T.), M.Sc., Ph.D.(McG.)

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.) (*on leave*)

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 Kehayia; B.A., M.A., Ph.D.(McG.)

Anouk Lamontagne; B.Sc., M.Sc., Ph.D.(Laval) (*on leave*)

Bernadette Nedelec; B.Sc.(O.T.), Ph.D.(Alta.)

Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)

Assistant Professors

Sara Ahmed; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)

Dana Anaby; B.O.T., M.Sc.O.T.(Tel Aviv), Ph.D.(Br. Col.)

Patricia Belchior da Cunha: B.S.(Law), B.S.(O.T.)(Dom Bosco Catholic U.), Ph.D.(Flor.)

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.)

Barbara Mazer; B.Sc.(O.T.)(Qu.), M.Sc., Ph.D.(McG.)

Melissa Park, B.A.(Yale), M.A.(O.T.), Ph.D.(USC)

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.)

Jadranka Spahija; B.Sc.(P.T.), Ph.D.(McG.)

Assistant Professors (Professional)

Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.) (*on leave*)

Cynthia Perlman; B.Sc.(O.T.), M.Ed.(McG.)

Caroline Storr; B.Sc.(O.T.), M.B.A.(C'dia)

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.) (*on leave*)

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.)

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.)

Professional Associates

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 Bergthorson; M.Sc.(O.T.)(ATSU)

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.)

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.)

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.)

Associate Members

Bruno Gagnon; M.Sc.(McG.), M.D.(Laval)

Walter Wittich; B.Sc., M.A.(C'dia), Ph.D.(McG.)

21.11.1.5 Master of Science (M.Sc.); Rehabilitation Science (Thesis) (45 credits)

Thesis Courses (29 credits)

POTH 696	(2)	Thesis Research
POTH 697	(6)	Thesis Research 1
POTH 698	(9)	Thesis Research 2
POTH 699	(12)	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.

POTH 610	(4)	Research Methodology
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 616	(1)	Seminars in Rehabilitation Science
POTH 617	(0)	Rehabilitation Seminars 1
POTH 628	(3)	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.

POTH 603	(3)	Directed Practicum
POTH 604	(3)	Current Topics in Pediatrics
POTH 618	(3)	Topics in Rehabilitation
POTH 620	(3)	Measurement: Rehabilitation 1
POTH 630	(3)	Measurement: Rehabilitation 2
POTH 673	(3)	Screening for at Risk Drivers
POTH 674	(3)	Assessing Driving Ability 1
POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills
POTH 682	(3)	Promoting Healthy Activity
POTH 685	(3)	Perception and Action

21.11.1.6 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)

EDPH 689	(3)	Teaching and Learning in Higher Education
POTH 610	(4)	Research Methodology
POTH 617	(0)	Rehabilitation Seminars 1
POTH 619	(0)	Rehabilitation Seminars 2
POTH 628	(3)	Introduction to Regression Analysis

Complementary Courses (35 credits)

Group A: 20 credits

Chosen from the following courses offered by the School, or other campus courses at the 500 or 600 levels with permission of the Graduate Program Director. Some courses may be offered alternate years only.

Note: Students may take POTH 620 or POTH 630.

POTH 508	(3)	Plasticity in Rehabilitation
POTH 603	(3)	Directed Practicum
POTH 604	(3)	Current Topics in Pediatrics
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 618	(3)	Topics in Rehabilitation
POTH 620	(3)	Measurement: Rehabilitation 1
POTH 630	(3)	Measurement: Rehabilitation 2
POTH 631	(3)	Research Proposal
POTH 673	(3)	Screening for at Risk Drivers
POTH 674	(3)	Assessing Driving Ability 1
POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills

POTH 682	(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:

POTH 661	(7)	Research Project 1
POTH 662	(8)	Research Project 2

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.

21.11.1.7 Master of Science, Applied (M.Sc.A.); Physical Therapy (Non-Thesis) (58 credits)

The professional Master of Science, Applied, in Physical Therapy is a 58-credit degree program, which includes 1,000 hours of fieldwork education over five terms and leads 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/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)

POTH 624	(6)	Master's Project

Required Courses (40 credits)

PHTH 571	(7)	PT Clinical Practicum 1
PHTH 572	(7)	PT Clinical Practicum 2
PHTH 573	(7)	PT Clinical Practicum 3
PHTH 620	(7)	PT Clinical Practicum 4
PHTH 622	(3)	Integrated Pain Management
PHTH 623	(3)	Differential Diagnosis and Management
POTH 602	(3)	Educational Methodology
POTH 612	(3)	Advanced Research Methods

Complementary Courses (12 credits)

12 credits from the following:

PHTH 641	(3)	Topics in Cardiorespiratory Rehabilitation
PHTH 645	(3)	Pelvic Floor Rehabilitation
PHTH 661	(3)	Sport Physiotherapy
PHTH 662	(3)	Advanced Manual Therapy
POTH 508	(3)	Plasticity in Rehabilitation
POTH 604	(3)	Current Topics in Pediatrics
POTH 636	(3)	Physical Therapy in Pediatrics

POTH 637	(3)	Cancer Rehabilitation
POTH 639	(3)	Motor Control
POTH 682	(3)	Promoting Healthy Activity
POTH 685	(3)	Perception and Action

3 of the 12 credits may be chosen from any other faculty at the 500 or 600 level.

21.11.1.8 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/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
POTH 633	(3)	Function/Activity in Arthritis
POTH 634	(3)	Childhood Performance Issues
POTH 635	(3)	Enabling Upper Extremity Function
POTH 636	(3)	Physical Therapy in Pediatrics
POTH 637	(3)	Cancer Rehabilitation
POTH 638	(3)	Promoting Wellness of Seniors
POTH 640	(3)	Role-Emerging Management

21.11.1.9 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.

21.11.1.10 Graduate Certificate in Assessing Driving Capabilities (15 credits)

For more information about online graduate certificates including up-to-date information on course details and current professors contributing to the courses, see the McGill School of Physical and Occupational Therapy website at http://www.mcgill.ca/spot/programs/online-graduate-certificates/driving-certificate.

Required Courses (15 credits)

POTH 673	(3)	Screening for at Risk Drivers
POTH 674	(3)	Assessing Driving Ability 1
POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills

Note: POTH 673 and 674 are offered online, whereas POTH 675, POTH 676, and POTH 677 have both online components and intensive workshops.

21.11.1.11 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:

NUR2 635	(3)	Pain Measurement in Children
POTH 603	(3)	Directed Practicum
POTH 611	(3)	Health Research Methods

22 Faculty of Religious Studies

22.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

22.2 Graduate and Postdoctoral Studies

22.2.1 Administrative Officers

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

22.2.2 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.

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 2013–2014

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

22.4 Graduate Studies at a Glance

22.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.

Faculty of Arts	Degrees Available
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.

Faculty of Medicine	Degrees Available
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.
Ingram School of Nursing	**Degrees Available**
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma
School of Physical and Occupational Therapy	**Degrees Available**
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
Faculty of Religious Studies	**Degrees Available**
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.
Schulich School of Music	**Degrees Available**
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma
Faculty of Science	**Degrees Available**
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

22.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

22.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing
Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics

Master of Arts (M.A.)		
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)

Master of Library and Information Studies (M.L.I.S.)

The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.

Master of Library and Information Studies (M.L.I.S.)		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A

Master of Science (M.Sc.)		
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

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

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

Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

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.

Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

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.

Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

22.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

22.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science

Doctor of Philosophy (Ph.D.)		
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine

Doctor of Philosophy (Ph.D.)		
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

22.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

22.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)

Graduate Diplomas	
Primary Care Nurse Practitioner	

Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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 studies must be approved by GPS before registration. Double counting is not permitted.

22.6 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 permits. 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.

22.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

22.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

22.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

22.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

22.6.4 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* 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*.

22.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least "Pass."
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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.

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22.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

22.6.7 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.

22.6.8 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.

22.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

22.6.10 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.

Revised – Council of February 9, 2004.

22.6.11 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.

22.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies

(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 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.

22.9 Graduate Studies Guidelines and Policies

Refer to *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

22.11.1 Religious Studies

22.11.1.1 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*

22.11.1.2 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 22.11.1.5: 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 22.11.1.7: 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 22.11.1.6: 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 22.11.1.8: 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 22.11.1.9: 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 22.11.1.10: 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 22.11.1.11: 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.

22.11.1.3 Religious Studies Admission Requirements and Application Procedures

22.11.1.3.1 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, 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 honours program in religious studies or theology from an accredited university or college. Those who have a McGill B.Th. or an equivalent degree in addition to a B.A. degree with a second-class standing may be admitted to the second year of the S.T.M. program.

Doctor of Philosophy (Ph.D.)

Entry into the doctoral program is limited to applicants who have earned an academic master's degree in religious studies or theology in a recognized graduate program, or those who have finished the course requirements of such a program with a minimum CGPA of 3.5/4.0.

Advanced Standing (Ph.D. 2) may be granted if the completed master's-level work including a thesis is in the same area as that of the intended doctoral specialization and involved not less than six (6) courses (18 credits).

It is recommended that a foreign language related to the area of study be included in the bachelor's or master's work preceding doctoral study.

Applicants for doctoral programs are requested to submit a substantial sample of their scholarly writing (15–20 pages) with their application. The application should specify one of the specializations listed in *section 22.11.1.2: 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.

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 11.6.3: Application Procedures* for detailed application procedures.

22.11.1.3.2.1 Additional Requirements

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

- Personal Statement – approximately 500 words
- Written Work – recent academic writing

22.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15*	Fall: March 15*	Fall: March 15*
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

* 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.

22.11.1.4 Religious Studies Faculty

Dean, Faculty of Religious Studies

Ellen B. Aitken

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., B.A.(Montr.), D.Th.(Munich) (*J.W. McConnell Professor of Philosophy of Religion*)

Robert C. Culley; B.A.(Tor.), B.D.(Knox, Tor.), M.A., Ph.D.(Tor.), D.D.(Montr. Dio. Coll.)

Douglas J. Hall; B.A.(W. Ont.), M.Div., S.T.M., Th.D.(U.T.S., N.Y.), D.D.(Qu.), LL.D.(Wat.), D.D.(Presb. Coll.)

Joseph C. McLelland; B.A.(McM.), M.A.(Tor.), B.D.(Knox, Tor.), Ph.D.(Edin.), D.D.(Montr. Dio. Coll.), D.D.(Knox, Tor.)

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.)

Professors

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.(Alld.), 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.)

Lara Braitstein; 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.)

Patricia G. Kirkpatrick; B.A.(McG.), M.Th.(Lond.), D.Phil.(Oxf.), D.D.(Montr. Dio. Coll.)

Davesh Soneji; B.A.(Manit.), Ph.D.(McG.)

Assistant Professor

Andrea M. Pinkney; B.A.(McG.), M.A.(UH Manoa), Ph.D.(Col.)

Faculty Lecturer

Jim Kanaris; B.A.(C'dia), M.A., Ph.D.(McG.)

Numata Visiting Professor

Roger R. Jackson; B.A.(Wesl.), M.A., Ph.D.(Madison)

Adjunct Professors

Hillard T. Goldfarb; Alyson Huntly; Paul Jennings; Philip Joudrey; William Klempa; T. Jinpa Langri; Lucille Marr; Angelica Piché; Vanessa Sasson; John M. Simons; Dale Woods

22.11.1.5 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.

22.11.1.6 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.

22.11.1.7 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 692	(6)	M.Sc. Thesis Research Progress Report
BIOE 693	(12)	M.Sc. Thesis

Required Courses (12 credits)

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum
RELG 571	(3)	Religion and Medicine
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.

22.11.1.8 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

RELG 662	(3)	M.A. Research Paper 3

Required Courses (6 credits)

RELG 555	(3)	Honours Seminar
RELG 645	(3)	Methods in Religious Studies

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.

22.11.1.9 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:

Year 2 entrants, 6 credits from the following courses:

RELG 520	(3)	Biblical Theology
RELG 530	(3)	Church History
RELG 531	(3)	Christian Theology
RELG 540	(3)	Philosophy of Religion
RELG 541	(3)	Theological Ethics
RELG 550	(3)	Comparative Religion

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.

22.11.1.10 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.

Required Courses

RELG 701	(0)	Major Comprehensive Examination
RELG 702	(0)	Minor Comprehensive Examination
RELG 703	(0)	Oral Comprehensive Examination

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.

22.11.1.11 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

RELG 701	(0)	Major Comprehensive Examination
RELG 702	(0)	Minor Comprehensive Examination
RELG 703	(0)	Oral Comprehensive Examination
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

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:

WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

and one 3-credit graduate seminar with a substantive focus on gender and/or women's studies.

One 3-credit graduate seminar must be at the 700 level.

Students entering into Ph.D. 2

Students entering into Ph.D. 2 are required to take a minimum of four (3-credit) graduate seminars including:

WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

and one 3-credit graduate seminar with a substantive focus on gender and/or women's studies.

One 3-credit graduate seminar must be at the 700 level.

Language Requirements

Modern and ancient languages as stipulated by field of study.

23 Schulich School of Music

23.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

23.4 Graduate Studies at a Glance

23.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.

Faculty of Arts	Degrees Available
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.

Faculty of Medicine	Degrees Available
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

23.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.

Degree		Prerequisites
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

23.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing

Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting

Master of Music (M.Mus.)		
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment

Master of Science (M.Sc.)		
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

23.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.

Degree		Prerequisites
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

23.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science

Doctor of Philosophy (Ph.D.)		
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

23.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

23.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2

Graduate Certificates	
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Guidelines and Policies > section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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#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 studies must be approved by GPS before registration. Double counting is not permitted.

23.6 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 permits. 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.

23.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

23.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

23.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

23.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

23.6.4 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* 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*.

23.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least "Pass."
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

23.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

23.6.7 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.

23.6.8 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.

23.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

23.6.10 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.

Revised – Council of February 9, 2004.

23.6.11 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.

23.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

23.11.1 Schulich School of Music

23.11.1.1 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*

23.11.1.2 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 musicians, singers, or established chamber ensembles.

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 multiple sources of funding for graduate study. Fellowships (including the Schulich Scholarships, Max Stern Fellowships, and McGill Excellence Fellowships) range in value from $1,500 to $12,000; some are renewable for multiple years of study (see *www.mcgill.ca/gps/funding/students-postdocs*).

There are also multiple opportunities for graduate students to obtain funding and experience as paid assistants at the Schulich School of Music. Positions are available as teaching assistants, invigilators, apprentice writers for program notes, sound recording technicians, library assistants, stage hands, and front-of-house staff. More advanced students can obtain positions as instructors. A variety of research assistantships in selected areas are also available. Inquiries should be directed to the Chairs of the Departments of Performance and Music Research, as appropriate.

Master's Programs

section 23.11.1.5: 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 23.11.1.6: 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

section 23.11.1.6: Master of Arts (M.A.); Music — Music Education (Thesis) (45 credits)

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.

section 23.11.1.7: 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 23.11.1.8: Master of Arts (M.A.); Music — Musicology (Thesis) (45 credits)

This program is for students interested in developing research projects that bridge traditional methodologies with new critical approaches in musicology. The area's humanistic orientation emphasizes the importance of political, social, and literary history, while also encouraging students to develop their skills in musical analysis, their sensitivity to different styles and performance practices, and their awareness of issues in aesthetics. Students receive guidance from leading scholars whose internationally acclaimed research ranges from medieval and renaissance music to the popular music of today. Collaborations with students from other areas and the doctoral program in seminars facilitate out-of-the-box thinking; opportunities to explore interdisciplinary research topics also exist through links with other departments, the Institute for the Public Life of Art and Ideas, and the Centre for Interdisciplinary Research in Music, Media, and Technology. The area also provides valuable pedagogical training through teaching assistantships in undergraduate music history courses. Graduates often continue their studies at the doctoral level at McGill and other major North American universities; others pursue careers in teaching, arts management, music business, journalism, and archival curation, among others.

section 23.11.1.9: 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 23.11.1.10: 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 23.11.1.11: 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 23.11.1.12: 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 23.11.1.13: Master of Arts (M.A.): Music — Music Education (Non-Thesis) (45 credits)**,**

section 23.11.1.14: Master of Arts (M.A.); Music — Musicology (Non-Thesis) (45 credits)**, and**

section 23.11.1.15: 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 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 23.11.1.16: Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 credits)

The Master of Music: Vocal Pedagogy is not being offered in the 2013–2014 academic year.

section 23.11.1.17: 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 23.11.1.18: 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 23.11.1.19: 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 23.11.1.20: 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

section 23.11.1.20: Master of Music (M.Mus.); Performance: Collaborative Piano (Thesis) (45 credits)

craft. Faculty includes internationally renowned collaborative pianists, vocal coaches, conductors, and stage directors. Graduates pursue careers as collaborative pianists, accompanists, opera repetiteurs, studio teachers, and coaches.

section 23.11.1.21: 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 repertoires. Graduates often continue their studies at the doctoral level, have been selected for national/international competitions, and pursue careers as collaborative pianists, opera coaches, and as independent studio teachers.

section 23.11.1.22: 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, Tsuji, 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 23.11.1.23: 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 podium time, interactions with world-class conductors, score study, and the development of rehearsal technique. A range of seminars provides for the in-depth study of performance practice and the development of analytical skills with leading scholars in musicology and theory. Thesis performance projects involve concert recitals with various Schulich School of Music ensembles. Some graduates continue on to doctoral studies; others pursue conducting and teaching positions in schools, orchestras, and as opera assistants.

section 23.11.1.24: 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 repertoires. 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 23.11.1.25: 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 23.11.1.26: 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

section 23.11.1.26: Doctor of Music (D.Mus.); Music — Composition

artist series, and high-quality performances, readings, and recordings of their works by some of the school's most esteemed ensembles and advanced performers. Commissioning opportunities exist through an established composer-in-residence program and through student-initiated, performer-composer and interdisciplinary collaborations. Graduates have won prestigious awards (e.g., Jules Leger Prize, SOCAN competition) and have successful careers in university teaching, (freelance) composition, film, literature, and conducting.

section 23.11.1.27: Doctor of Music (D.Mus.); Music — Performance Studies

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.

section 23.11.1.28: Doctor of Philosophy (Ph.D.); Music — (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

The thesis for the Ph.D. in composition involves the creation of an original large-scale work and research that increases our understanding of music and musical processes. Students in music education investigate a broad spectrum of critical issues through a variety of quantitative and qualitative methodologies. The Musicology area adopts a humanistic orientation that bridges traditional methodologies with new critical approaches. Research in Music Technology and Sound Recording can lead to patents, among other outcomes and benefits from unlimited technological resources. Theorists engage with all repertoires and analytical methods.

section 23.11.1.29: Doctor of Philosophy (Ph.D.); Music — Gender and Women's Studies

This program is open to doctoral students who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. Music requirements are augmented by participation in a Research Methods course and a Graduate Feminism 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.

23.11.1.3 Schulich School of Music Admission Requirements and Application Procedures

23.11.1.3.1 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 must hold an M.Mus. or B.Mus. degree with equivalent professional experience. All musicians must be highly accomplished performers and are required to submit screening material and a statement of performance interests 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 research interests by the specified application deadlines. Only the most advanced applicants 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.

23.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

23.11.1.3.2.1 Additional Requirements

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

- $60 audition fee for Performance degrees

23.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 1	Fall: Dec. 1	Fall: Dec. 1
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

23.11.1.4 Schulich School of Music Faculty

Dean, Schulich School of Music

Sean Ferguson

Director, Graduate Studies

Eleanor Stubley

Chairs

Julie Cumming (*Acting, July 21–Aug. 15, 2013*) – *Department of Performance*

Sara Laimon (*Acting, Aug. 16–25, 2013*) – *Department of Performance*

Douglas McNabney (*Effective Aug. 26, 2013*) – *Department of Performance*

Christoph Neidhöfer – *Department of Music Research*

Associate Dean (Research and Administration)

Julie Cumming

Associate Dean (Academic and Student Affairs)

Sara Laimon

Professors

William Caplin; B.M.(USC), M.A., Ph.D.(Chic.) (*James McGill Professor*)

Brian Cherney; B.Mus., M.Mus., Ph.D.(Tor.)

Kevin Dean; B.M.E.(Iowa), M.Mus.(Miami)

Hans-Ola Ericsson; Mus. Dir. Exam.(Royal Swedish Academy of Music), Graduate, Hochschule für Musik(Freiburg)

Professors

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 Woszczyk; M.A., Ph.D.(F. Chopin Academy of Music, Warsaw) (*James McGill Professor*)

Associate Professors

Stefano Algieri; B.Mus., M.Mus.(Manhattan School of Music)

Theodore Baskin; B.Mus.(Curtis), M.Mus.(Auck.), Principal Oboe, Montreal Symphony

Tom Beghin; Diplôme Supérieur(Louvain), M.A., D.M.A.(C'nell)

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.(C'nell)

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; Diploma(Musikkhochschule, 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.A.(Tokyo), Professional Studies(Juilliard)

Alexis Hauser; Diplom(Konservatorium der Stadt, Wien)

Aiyun Huang; B.A.(Tor.), D.M.A.(Calif.-San Diego)

Melissa Hui; B.Mus.(Br. Col.), M.F.A.(Calif. Inst. of Arts), D.M.A./M.M.A.(Yale)

Timothy Hutchins; Dip. L.G.S.M.(Guildhall), B.A.Hons.Mus.(Dal.), Principal Flute, Montreal Symphony

Jan Jarczyk; 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.)

Dennis Miller; Principal Tuba, Montreal Symphony

Christoph Neidhöfer; Graduate, Hochschule für Musik(Basel), Ph.D.(Harv.)

Associate Professors

William Porter; B.Mus.(Oberlin), M.M., M.M.A., D.M.A.(Yale)

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.(Stony Brook)

John Zirbel; B.Mus.(Wisc.), Principal Horn, Montreal Symphony

Assistant Professors

Lisa Barg; B.A.(Antioch), M.A., Ph.D.(Stony Brook)

Nicole Biamonte; B.F.A.(SUNY Purchase), Ph.D., M.Phil.(Yale)

Rémi Bolduc

James Box; B.M.(Southern Methodist U.), M.M.(Cleve. 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)

Adjunct Professors

Durand Begault; B.A.(Calif.-Santa Cruz), M.F.A.(Mills Coll., Calif.), Ph.D.(Calif.-San Diego)

Jonas Braasch; Dipl. Physics (Dortmund), Doct-Eng, Ph.D.(Ruhr-Univ. Bochum)

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.)

23.11.1.5 Master of Music (M.Mus.); Music — Composition (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)

The thesis is a composition, accompanied by an analytical essay of approximately 20-30 pages.

MUGS 684	(6)	Master's Thesis Research 2
MUGS 685	(9)	Master's Thesis Research 3
MUGS 686	(12)	Master's Thesis Research 4

Required Courses (6 credits)

MUCO 622D1	(3)	Composition Tutorial
MUCO 622D2	(3)	Composition Tutorial

Complementary Courses (6 credits)

6 credits selected from the following courses:

MUCO 631	(3)	Seminar in Composition 1
MUCO 632	(3)	Seminar in Composition 2
MUCO 633	(3)	Seminar in Composition 3
MUCO 634	(3)	Seminar in Composition 4
MUCO 635	(3)	Seminar in Composition 5
MUCO 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.

23.11.1.6 Master of Arts (M.A.); Music — Music Education (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Education.

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

23.11.1.7 Master of Arts (M.A.); Music — Music Technology (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)

The candidate will undertake supervised research leading to a thesis that will utilize or investigate an aspect of musical science and technology.

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.

23.11.1.8 Master of Arts (M.A.); Music — Musicology (Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (30 credits)

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Musicology.

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)

MUHL 529	(3)	Proseminar in Musicology

Complementary Courses (12 credits)

12 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department. Normally 6 credits will be in Seminars in Musicology selected from the following:

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

23.11.1.9 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.

23.11.1.10 Master of Music (M.Mus.); Sound Recording (Non-Thesis) (60 credits)

Program Prerequisites (27 credits)

Required Courses (21 credits)

MUCO 260	(3)	Instruments of the Orchestra
MUMT 250	(3)	Music Perception and Cognition
MUSR 232	(3)	Introduction to Electronics
MUSR 300D1	(3)	Introduction to Music Recording
MUSR 300D2	(3)	Introduction to Music Recording
MUSR 339	(3)	Introduction to Electroacoustics
PHYS 224	(3)	Physics of Music

Complementary Music Technology Courses (6 credits)

3 credits from:

MUMT 202	(3)	Fundamentals of New Media
MUMT 203	(3)	Introduction to Digital Audio

3 credits from:

MUMT 302	(3)	New Media Production 1
MUMT 306	(3)	Music and Audio Computing 1

1) Students admitted as a Special Student in the prerequisite package for Sound Recording must meet with the Sound Recording Adviser prior to registering in MUMT (Music Technology) courses. In order to be considered for admission to the Master of Music in Sound Recording, students must attain a minimum grade of B in all of the above courses, and must have a B.Mus. degree with a minimum CGPA of 3.00.

2) MUMT 202 and MUMT 203 cover overlapping material, but MUMT 203 requires a much stronger background in Mathematics. If in doubt, please consult the instructor.

3) MUMT 306 (Music and Audio Computing 1) can be taken by adept programmers in place of MUMT 302 (New Media Production 1).

Required Courses (51 credits)

MUSR 629D1	(2)	Technical Ear Training
MUSR 629D2	(2)	Technical Ear Training
MUSR 667	(3)	Digital Studio Technology
MUSR 668	(3)	Digital/Analog Audio Editing
MUSR 669D1	(1.5)	Topics: Classical Music Recording
MUSR 669D2	(1.5)	Topics: Classical Music Recording
MUSR 670D1	(5)	Recording Theory and Practice 1
MUSR 670D2	(5)	Recording Theory and Practice 1
MUSR 671D1	(5)	Recording Theory and Practice 2
MUSR 671D2	(5)	Recording Theory and Practice 2
MUSR 672D1	(3)	Analysis of Recordings
MUSR 672D2	(3)	Analysis of Recordings
MUSR 674	(3)	Electronic and Electroacoustic Measurement
MUSR 677D1	(3)	Audio for Video Post-Production
MUSR 677D2	(3)	Audio for Video Post-Production
MUSR 678	(3)	Advanced Digital Editing and Post-Production

Electives Courses (9 credits)

Three 3-credit graduate course electives, approved by the Department.

23.11.1.11 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

23.11.1.12 Master of Arts (M.A.); Music — Theory (Thesis) — Gender and Women's Studies (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Thesis Courses (27 credits)

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Theory on a topic centrally related to issues of Gender and/or Women's Studies.

MUGS 684	(6)	Master's Thesis Research 2
MUGS 685	(9)	Master's Thesis Research 3
MUGS 686	(12)	Master's Thesis Research 4

Required Course (3 credits)

WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

9 credits of graduate seminars at the 500, 600, or 700 level, approved by the Department, selected from the following:

MUTH 652	(3)	Seminar in Music Theory 1
MUTH 653	(3)	Seminar in Music Theory 2
MUTH 654	(3)	Seminar in Music Theory 3

MUTH 655	(3)	Seminar in Music Theory 4
MUTH 656	(3)	Seminar in Music Theory 5
MUTH 657	(3)	Seminar in Music Theory 6

3 credits selected from the following:

MUTH 658	(3)	History of Music Theory 1
MUTH 659	(3)	History of Music Theory 2

3 credits of:

WMST 602	(3)	Feminist Research Symposium

or 3 credits of graduate seminar at the 500, 600, or 700 level, on gender/women's issues, may be selected from within or outside the Department. The selection must be approved by the Department.

23.11.1.13 Master of Arts (M.A.): Music — Music Education (Non-Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Research Project (24 credits)

MUGS 614	(3)	Reading Course 1
MUGS 615	(3)	Reading Course 2
MUGS 635	(9)	Research Paper 1
MUGS 636	(9)	Research Paper 2

Required Courses (21 credits)

Seven 3-credit courses at the 500, 600, or 700 level approved by the Music Education Area, four of which must be in the Music Education Area.

With the approval of the Music Education Area, two of the seven 3-credit courses may be taken in the Faculty of Education.

23.11.1.14 Master of Arts (M.A.); Music — Musicology (Non-Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Research Project (24 credits)

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

23.11.1.15 Master of Arts (M.A.); Music — Theory (Non-Thesis) (45 credits)

Additional prerequisite courses may be assigned to candidates in Composition, Music Education, Music Theory, Music Technology, and Musicology following transcript review and/or placement exams.

Research Project (24 credits)

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

23.11.1.16 Master of Music (M.Mus.); Performance: Vocal Pedagogy (Thesis) (47 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

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.

23.11.1.17 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
MUPG 659	(9)	Performance in Recording Media

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.

23.11.1.18 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 MUGP 607

Required Course

MUGS 605	(0)	Graduate Performance Colloquium

Complementary Seminars (9 credits)

3 credits from the following:

MUPG 590*	(3)	Vocal Styles and Conventions
MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUPG 590*	(3)	Vocal Styles and Conventions
MUPG 672D1**	(1.5)	Liturgical Improvisation
MUPG 672D2**	(1.5)	Liturgical Improvisation
MUPG 691	(3)	Vocal Ornamentation
MUTH 602	(3)	Keyboard Modal Counterpoint

or one graduate 3-credit seminar approved by the Department.

* If not already taken

** Organ only

Complementary Performance (9 credits)

Instruments:

3 terms of:

MUEN 580	(1)	Early Music Ensemble

6 credits from (may be taken more than once):

MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra

OR

Voice:

2 credits of:

MUEN 580	(1)	Early Music Ensemble

3 credits:

MUIN 610	(1)	Vocal Coaching 1
MUIN 611	(1)	Vocal Coaching 2
MUIN 612	(1)	Vocal Coaching 3

4 credits from (may be taken more than once):

MUEN 572	(2)	Cappella Antica
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 696	(2)	Opera Theatre

23.11.1.19 Master of Music (M.Mus.); Performance: Orchestral Instruments and Guitar (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisite may be assigned as an additional required course on the basis of transcript review:

MUPD 560 - 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):

MUEN 573	(2)	Baroque Orchestra
MUEN 590	(2)	McGill Winds
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 597	(2)	Orchestral Ensembles

Strings:

Two terms of:

MUEN 560**	(1)	Chamber Music Ensemble

1 credit of:

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 599	(1)	Jazz Studio Orchestra

Winds/Brass:

2 credits from the following (may be taken more than once):

MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort

1 credit from:

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 571	(1)	Contemporary Improvisation Ensemble
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 599	(1)	Jazz Studio Orchestra

Percussion:

3 credits from (may be taken more than once unless otherwise indicated):

MUEN 560**	(1)	Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 571	(1)	Contemporary Improvisation Ensemble
MUEN 598	(1)	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.

23.11.1.20 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:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622	(3)	Performance Tutorial 3

MUPG 600*	(9)	Recital Project 1
MUPG 653*	(9)	Opera Coach Project

* Students may take MUPG 653 or MUPG 600.

9 credits from the following:

MUPG 601*	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 614	(3)	Quick Study
MUPG 653*	(9)	Opera Coach Project
MUPG 654	(6)	Opera Coach Performance

* Students may take either MUPG 653 (if not already taken) or MUPG 601 (if MUPG 600 not already taken).

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
MUPG 687	(1)	Collaborative Piano Repertoire 1: Song
MUPG 688	(1)	Collaborative Piano Repertoire 2: Instrumental
MUPG 689	(1)	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

Complementary Seminars (9 credits)

3 credits from the following:

MUPG 590	(3)	Vocal Styles and Conventions
MUPG 691	(3)	Vocal Ornamentation
MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

Complementary Performance (6 credits)

Two terms of:

MUEN 584	(1)	Studio Accompanying

4 credits from the following (may be repeated unless otherwise noted):

MUEN 560	(1)	Chamber Music Ensemble
MUEN 561	(1)	2nd Chamber Music Ensemble

MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass
MUEN 596	(2)	Opera Repetiteur
MUPG 670*	(2)	Advanced Continuo 1
MUPG 671*	(2)	Advanced Continuo 2

* MUPG 670 and MUPG 671 may not be repeated.

23.11.1.21 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:

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

* Students may take either MUPG 601 or MUPG 602.

** Students may take either MUPG 606 or MUPG 607.

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
MUPG 683	(1.5)	Piano Seminar 1
MUPG 684	(1.5)	Piano Seminar 2

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 MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

Complementary Performance (6 credits)

6 credits from the following:

MUEN 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

23.11.1.22 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.

23.11.1.23 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

MUCO 261 - Orchestration 1

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 Semiars (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

23.11.1.24 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

23.11.1.25 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.

23.11.1.26 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)

MUGS 701	(0)	Comprehensive Examination Part 1

MUGS 702	(0)	Comprehensive Examination Part 2

12 credits (two years) of:

MUCO 722D1	(3)	Doctoral Composition Tutorial
MUCO 722D2	(3)	Doctoral Composition Tutorial

Elective Courses (12 credits)

Four approved 3-credit graduate electives or the equivalent.

Composition Performance

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

23.11.1.27 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)

MUPG 760	(12)	Doctoral Recital 1
MUPG 767	(12)	Doctoral Recital 2
MUPG 770	(12)	Doctoral Lecture - Recital Project

Required Courses (32 credits)

24-32 credits

MUGS 701	(0)	Comprehensive Examination Part 1
MUGS 702	(0)	Comprehensive Examination Part 2

Six terms of one hour per week of Performance Tutorials:

MUIN 720	(4)	D.Mus. Performance Tutorial 1
MUIN 721	(4)	D.Mus. Performance Tutorial 2
MUIN 722	(4)	D.Mus. Performance Tutorial 3
MUIN 723	(4)	D.Mus. Performance Tutorial 4
MUIN 724	(4)	D.Mus. Performance Tutorial 5
MUIN 725	(4)	D.Mus. Performance Tutorial 6

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.

23.11.1.28 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:

MUCO 722D1	(3)	Doctoral Composition Tutorial
MUCO 722D2	(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.

MUGS 705	(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.

23.11.1.29 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)

WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Comprehensive examination

MUGS 701	(0)	Comprehensive Examination Part 1
MUGS 702	(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).

24 Faculty of Science

24.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

I am extremely pleased to welcome you to McGill University. Our world-class scholarly community includes over 400 doctoral and master's degree programs, and is recognized for excellence across the full range of academic disciplines and professions. 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 the University. 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 graduation process, and 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 18th by *QS World University Rankings 2012*. 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

Administrative Officers	
Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)	**Associate Provost (Graduate Education) and Dean (Graduate and Postdoctoral Studies)**
Heather Goad; B.A.(Br. Col.), Ph.D.(USC)	**Associate Dean (Graduate and Postdoctoral Studies)**
Jean-Jacques Lebrun; B.Sc.(France), M.Sc.(Rennes), Ph.D.(Paris)	**Associate Dean (Graduate and Postdoctoral Studies)**
Laura Nilson; B.A.(Colgate), Ph.D.(Yale)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lissa B. Matyas; B.F.A., M.Sc.(C'dia)	**Director (Graduate and Postdoctoral Studies)**

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 2013–2014

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

24.4 Graduate Studies at a Glance

24.4.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	Degrees Available
section 11.11.1: Agricultural Economics	M.Sc.
section 11.11.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 11.11.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
section 11.11.4: Biotechnology	M.Sc.A., Graduate Certificate
section 11.11.5: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 11.11.6: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 11.11.7: Natural Resource Sciences	M.Sc., Ph.D.
section 11.11.8: Parasitology	M.Sc., Ph.D.
section 11.11.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Arts	Degrees Available
section 12.11.1: Anthropology	M.A., Ph.D.
section 12.11.2: Art History	M.A., Ph.D.
Classics – see *section 12.11.10: History and Classical Studies*	N/A
section 12.11.4: Communication Studies	M.A., Ph.D.
section 12.11.5: East Asian Studies	M.A., Ph.D.
section 12.11.6: Economics	M.A., Ph.D.
section 12.11.7: English	M.A., Ph.D.
section 12.11.8: French Language and Literature	M.A., Ph.D.
section 12.11.9: Geography	M.A., Ph.D.
section 12.11.10: History and Classical Studies	M.A., Ph.D.
section 12.11.11: Institute for the Study of International Development	N/A
section 12.11.12: Islamic Studies	M.A., Ph.D.
section 12.11.13: Jewish Studies	M.A.
section 12.11.14: Languages, Literatures, and Cultures	M.A., Ph.D.
section 12.11.15: Linguistics	M.A., Ph.D.
section 12.11.16: Mathematics and Statistics	M.A., Ph.D.

Faculty of Arts	Degrees Available
section 12.11.17: Philosophy	M.A., Ph.D.
section 12.11.18: Political Science	M.A., Ph.D.
section 12.11.19: Psychology	M.A., Ph.D.
section 12.11.20: Quebec Studies / Études sur le Québec	N/A
section 12.11.21: Social Studies of Medicine	N/A
section 12.11.22: Social Work	M.S.W., Ph.D.
section 12.11.23: Sociology	M.A., Ph.D.

School of Dentistry	Degrees Available
section 13.11.1: Dentistry	M.Sc.

Desautels Faculty of Management	Degrees Available
section 14.11: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japan, E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certificate, Diploma

Faculty of Education	Degrees Available
section 15.11.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 15.11.2: Information Studies	M.L.I.S., Ph.D., Graduate Certificate, Graduate Diploma
section 15.11.3: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 15.11.4: Kinesiology and Physical Education	M.A., M.Sc.

Faculty of Engineering	Degrees Available
section 16.11.1: Architecture	M.Arch., Ph.D.
section 16.11.2: Chemical Engineering	M.Eng., Ph.D.
section 16.11.3: Civil Engineering and Applied Mechanics	M.Sc., M.Eng., Ph.D.
section 16.11.4: Electrical and Computer Engineering	M.Eng., Ph.D.
section 16.11.5: Mechanical Engineering	M.Sc., M.Eng., Ph.D.
section 16.11.6: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
section 16.11.7: Urban Planning	M.U.P.

Faculty of Law	Degrees Available
section 17.11.1: Law	LL.M., D.C.L., Graduate Certificate

McGill School of Environment	Degrees Available
section 18.11.1: Environment	N/A

Faculty of Medicine	Degrees Available
section 19.11.1: Anatomy and Cell Biology	M.Sc., Ph.D.
section 19.11.2: Biochemistry	M.Sc., Ph.D.
section 19.11.3: Bioethics	N/A
section 19.11.4: Biomedical Engineering	M.Eng., Ph.D.
section 19.11.5: Communication Sciences and Disorders	M.Sc., M.Sc.A., Ph.D.
section 19.11.6: Epidemiology and Biostatistics	M.Sc., Ph.D.
section 19.11.9: Human Genetics	M.Sc., Ph.D.
section 19.11.10: Medical Physics	M.Sc.
section 19.11.11: Medicine, Experimental	M.Sc., Ph.D., Graduate Diploma
section 19.11.12: Medicine, Family (Option)	N/A

Faculty of Medicine	Degrees Available
section 19.11.13: Microbiology and Immunology	M.Sc., Ph.D.
section 19.11.14: Neuroscience (Integrated Program in)	M.Sc., Ph.D.
section 19.11.15: Occupational Health	M.Sc.A., Ph.D.
section 19.11.16: Otolaryngology – Head and Neck Surgery	M.Sc.
section 19.11.17: Pathology	M.Sc., Ph.D.
section 19.11.18: Pharmacology and Therapeutics	M.Sc., Ph.D.
section 19.11.19: Physiology	M.Sc., Ph.D.
section 19.11.20: Psychiatry	M.Sc.
section 19.11.21: Surgery, Experimental	M.Sc., Ph.D.

Ingram School of Nursing	Degrees Available
section 20.11.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	Degrees Available
section 21.11.1: Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Faculty of Religious Studies	Degrees Available
section 22.11.1: Religious Studies	M.A., S.T.M., Ph.D.

Schulich School of Music	Degrees Available
section 23.11.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Diploma

Faculty of Science	Degrees Available
section 24.11.1: Atmospheric and Oceanic Sciences	M.Sc., Ph.D.
section 24.11.2: Biology	M.Sc., Ph.D.
section 24.11.3: Chemistry	M.Sc., Ph.D.
section 24.11.4: Computer Science	M.Sc., Ph.D.
section 24.11.5: Earth and Planetary Sciences	M.Sc., Ph.D.
section 12.11.9: Geography	M.Sc., Ph.D.
section 12.11.16: Mathematics and Statistics	M.Sc., Ph.D.
section 24.11.8: Physics	M.Sc., Ph.D.
section 12.11.19: Psychology	M.Sc., Ph.D.

24.4.2 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 11.4.2.1: Master's Degree Programs and Specializations* for more information on specific programs and options.

Degree		Prerequisites
Master of Architecture	M.Arch.	Professional degree – McGill B.Sc.(Arch.) degree, or equivalent. Post-professional degree – an M.Arch. (professional degree) or equivalent professional degree.
Master of Arts	M.A.	Bachelor of Arts in the subject selected for graduate work. See appropriate unit.
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 14.12: M.B.A. Program*.

Degree		Prerequisites
Master of Business Administration with integrated Bachelor of Civil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See *section 14.12: M.B.A. Program*.
Master of Business Administration with Doctor of Medicine / Master of Surgery	M.B.A. with M.D.,C.M.	See *section 14.12: M.B.A. Program*.
Master of Education	M.Ed.	Bachelor's degree with specialization related to the subject chosen for graduate work, plus a Permanent Quebec Teaching Diploma or its equivalent for some of the above degrees. See appropriate department.
Master of Engineering	M.Eng.	Bachelor of Engineering or equivalent, with specialization appropriate for the subject selected for graduate study. See appropriate department.
Master of Laws	LL.M.	An acceptable degree in Law or equivalent qualifications. See *section 17.11.1.3: Law Admission Requirements and Application Procedures*.
Master of Library and Information Studies	M.L.I.S.	At least a bachelor's degree from a recognized university. See *section 15.11.2.3: Information Studies Admission Requirements and Application Procedures*.
Master of Management	M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Manufacturing Management	M.M.M.	See *section 14.13: Master of Management Programs Admission Requirements and Application Procedures*.
Master of Music	M.Mus.	Bachelor of Music or Bachelor of Arts with concentration in the area selected for graduate study. Applicants to the Performance program are required to pass auditions in their speciality. See *section 23.11.1: Schulich School of Music*.
Master of Sacred Theology	S.T.M.	B.A. with specialization in religious studies or theology. See *section 22.11.1.3: Religious Studies Admission Requirements and Application Procedures*.
Master of Science	M.Sc.	Bachelor of Science in the subject selected for graduate work. See appropriate unit.
Master of Science, Applied	M.Sc.A.	A bachelor's degree in the subject selected for graduate work. See appropriate unit.
Master of Social Work	M.S.W.	Bachelor's degree in Social Work including courses in statistics and social science research methods. See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Social Work with Bachelor of Civil Law and Bachelor of Laws	M.S.W. with B.C.L. and LL.B.	See *section 12.11.22.3: Social Work Admission Requirements and Application Procedures*.
Master of Urban Planning	M.U.P.	Bachelor's degree in any one of the following: Anthropology, Architecture, Economics, Civil Engineering, Geography, Law, Management, Political Science, Social Work, Sociology, or Urban Planning, with adequate knowledge of quantitative techniques. See *section 16.11.7.3: Urban Planning Admission Requirements and Application Procedures*.

24.4.2.1 Master's Degree Programs and Specializations

The following list shows all of the programs and options available for each degree at McGill.

Program	Thesis/Non-Thesis	Options
Master of Architecture (M.Arch.)		
Professional	Non-Thesis	Design Studio, Design Studio – Directed Research
Post-professional	Non-Thesis	Architectural History and Theory, Cultural Mediations and Technology, Urban Design and Housing

Master of Arts (M.A.)		
Anthropology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies (Thesis)
Art History	Thesis	N/A
Classics	Thesis, Non-Thesis	N/A
Communication Studies	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) Gender and Women's Studies, Jewish Education (Non-Thesis)
Educational Leadership	Thesis, Non-Thesis (Coursework), Non-Thesis (Project)	Gender and Women's Studies (Thesis) Gender and Women's Studies (Non-Thesis (Project))
English	Thesis, Non-Thesis	N/A
French Language and Literature	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Geography	Thesis	Development Studies, Environment, Gender and Women's Studies, Neotropical Environment, Social Statistics (Thesis)
German	Thesis, Non-Thesis	N/A
Hispanic Studies	Thesis, Non-Thesis	N/A
History	Thesis, Non-Thesis	Development Studies, European Studies, Gender and Women's Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies (Thesis)
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Linguistics	Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	N/A
Medical Anthropology	Thesis	N/A
Music – Music Education	Thesis, Non-Thesis	N/A
Music – Music Technology	Thesis, Non-Thesis	N/A
Music – Musicology	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Music – Theory	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Philosophy	Thesis	Bioethics
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis) Development Studies, European Studies, Gender and Women's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and Women's Studies (Thesis)

Master of Arts (M.A.)		
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Women's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, Environment, Gender and Women's Studies, Medical Sociology, Neotropical Environment (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences
Master of Business Administration and Management Degrees (M.B.A., M.M., M.M.M.)		
M.B.A.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis) Air and Space Law, Environment, Comparative Law (Thesis and Non-Thesis)
Master of Library and Information Studies (M.L.I.S.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	N/A
Master of Music (M.Mus.)		
Music – Composition	Non-Thesis	N/A
Performance	Thesis	Vocal Pedagogy, Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting

Master of Music (M.Mus.)		
Sound Recording	Non-Thesis	N/A
Master of Sacred Theology (S.T.M.)		
A program leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) is given in the 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.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	Chemical Biology
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Dental Science	Thesis, Non-Thesis	Oral and Maxillofacial Surgery (Thesis)
Earth and Planetary Sciences	Thesis	Environment
Entomology	Thesis	Environment, Neotropical Environment
Epidemiology	Thesis	N/A
Experimental Medicine	Thesis	Bioethics, Environment, Family Medicine
Experimental Surgery	Thesis	Surgical Research
Food Science and Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geography	Thesis	Environment, Neotropical Environment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis	N/A
Medical Radiation Physics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment

Master of Science (M.Sc.)		
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Environment (Thesis) Environmental Assessment (Non-Thesis)

Master of Science, Applied (M.Sc.A.)		
This degree was designed to provide postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in Master of Science programs, but with no lower standards either for admission or completion of requirements. Two years of full-time study or equivalent are normally required with an emphasis on coursework.		
Animal Science	Non-Thesis	N/A
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing, Neotropical Environment
Biotechnology	Non-Thesis	N/A
Communication Sciences and Disorders	Non-Thesis	Speech-Language Pathology
Human Nutrition	Non-Thesis, Non-Thesis (Project), Non-Thesis (Practicum)	Dietetics Credentialing
Nursing	Non-Thesis	N/A
Occupational Health	Non-Thesis (Resident), Non-Thesis (Distance)	N/A
Occupational Therapy	Non-Thesis	N/A
Physical Therapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

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.		
Social Work	Thesis, Non-Thesis	N/A
Joint Master of Social Work with B.C.L. and LL.B.	Non-Thesis	N/A

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.		
Urban Planning	Thesis, Non-Thesis	Transportation Planning, Urban Design (Non-Thesis)

24.4.3 Doctoral Degrees Available at McGill

The following section lists the doctoral degrees available at McGill, along with their prerequisites. See *section 11.4.3.1: Doctoral Degree Programs and Specializations* for specific programs and options for doctoral degrees.

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 17.11.1: Law*.

Degree		Prerequisites
Doctor of Music	D.Mus.	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 23.11.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	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.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	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.

24.4.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
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, Developmental Biology, 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
Chemistry	Chemical Biology	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
Classics	N/A	Faculty of Arts
Communication Sciences and Disorders	Language Acquisition	Faculty of Medicine
Communication Studies	Gender and Women's Studies	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Computer Science	Bioinformatics	Faculty of Science
Counselling Psychology	N/A	Faculty of Education
Earth and Planetary Sciences	Environment	Faculty of Science
Economics	N/A	Faculty of Arts
Educational Psychology	Human Development, Learning Sciences	Faculty of Education
Educational Studies	Gender and Women's Studies, Language Acquisition, Mathematics and Science Education	Faculty of Education
Electrical Engineering	N/A	Faculty of Engineering
English	N/A	Faculty of Arts
Entomology	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Epidemiology	N/A	Faculty of Medicine
Experimental Medicine	Environment	Faculty of Medicine
Experimental Surgery (Surgical Research)	N/A	Faculty of Medicine
Food Science and Agricultural Chemistry	N/A	Faculty of Agricultural and Environmental Sciences
French Language and Literature	Gender and Women's Studies	Faculty of Arts
Geography	Environment, Gender and Women's Studies, Neotropical Environment	Faculty of Arts, Faculty of Science
German	N/A	Faculty of Arts
Hispanic Studies	N/A	Faculty of Arts
History	N/A	Faculty of Arts
Human Genetics	Bioinformatics	Faculty of Medicine
Human Nutrition	N/A	Faculty of Agricultural and Environmental Sciences
Information Studies	N/A	Faculty of Education
Islamic Studies	Gender and Women's Studies	Faculty of Arts
Linguistics	Language Acquisition	Faculty of Arts
Management	N/A	Desautels Faculty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Environmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Gender and Women's Studies	Schulich School of Music
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Environmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and Women's Studies	Faculty of Arts
Physics	N/A	Faculty of Science

Doctor of Philosophy (Ph.D.)		
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Political Science	Gender and Women's Studies	Faculty of Arts
Psychology	Language Acquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupational Therapy
Religious Studies	Gender and Women's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Environment	Faculty of Agricultural and Environmental Sciences
Russian	N/A	Faculty of Arts
School/Applied Child Psychology	N/A	Faculty of Education
Social Work	N/A	Faculty of Arts
Sociology	Environment, Gender and Women's Studies	Faculty of Arts
Joint Doctor of Philosophy (Ph.D.)		
Nursing	N/A	McGill / Université de Montréal
Management	N/A	McGill / Concordia / H.E.C. / UQAM
Social Work	N/A	McGill / Université de Montréal
***Ad Hoc* Doctor of Philosophy (Ph.D. (*Ad Hoc*))**		
Dentistry	N/A	Faculty of Dentistry
East Asian Studies	N/A	Faculty of Arts
Italian Studies	N/A	Faculty of Arts
Jewish Studies	N/A	Faculty of Arts
Kinesiology and Physical Education	N/A	Faculty of Education
Psychiatry	N/A	Faculty of Medicine
Urban Planning	N/A	Faculty of Engineering

24.4.4 Postdoctoral Research

See *section 11.8: Postdoctoral Research* for information about postdoctoral research at McGill University.

24.4.5 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	
Clinical Research	Professional Performance
Library and Information Studies	Public Accountancy (Chartered Accountancy)
Mining Engineering	Registered Dietitian Credentialing (R.D.)
Neonatal Nurse Practitioner	School/Applied Child Psychology (Post-Ph.D.)
Primary Care Nurse Practitioner	
Graduate Certificates	
Assessing Driving Capabilities	Educational Leadership 1
Air and Space Law	Educational Leadership 2

Graduate Certificates	
Bioinformatics	Library and Information Studies
Bioresource Engineering (Integrated Water Resources Management)	Post-M.B.A.
Biotechnology	Teaching English as a Second Language
Chronic Pain Management	Theory in Primary Care
Comparative Law	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*.

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.L.I.S.; 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.); Library and Information Studies (M.L.I.S.); 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 *Programs, Courses and University Regulations* publication, available at *www.mcgill.ca/study*.

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 as 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

Most 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 11.8.3: 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

A comprehensive examination or its equivalent is usually held near the end of Ph.D. 2. 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 approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to inform themselves of these details at the commencement of their programs. For more information, see *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Graduate* > *Guidelines and Policies* > *section 3.3: Ph.D. Comprehensives Policy*.

Language Requirements – Doctoral

Most 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.

Courses in French language 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*.

Seven copies of the thesis must be provided by the candidate. Of these, two copies will be retained by the University and five copies returned to the candidate. Some departments may require one or more additional copies. The final corrected copy is submitted electronically.

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/apply/prepare#program* 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 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 studies must be approved by GPS before registration. Double counting is not permitted.

24.6 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 permits. 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.

24.6.1 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#docs* 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 of $102.60 paid by credit card in Canadian funds **must** accompany the online application. The fee of $102.60 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 are subject to change.

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 permits.

The admission decision is based on the recommendation of the graduate department, verification by the Graduate Admissions Unit in Enrolment Services, as well as final approval from Graduate and Postdoctoral Studies. In some cases, the Graduate Admissions Committee may also contribute to the final admission decision. Official letters of admission are sent to applicants electronically by Enrolment Services.

24.6.2 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 recognized university and hold a recognized bachelor's degree or its equivalent, as determined by McGill, in a subject closely related to the one selected for graduate work.

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/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.

24.6.3 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#docs* for information and instructions.

1. **Online Application for Admission form:** *www.mcgill.ca/gradapplicants/apply/ready*.
2. **Application fee:** $102.60 non-refundable Canadian funds payable by credit card covers 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 are subject to change.
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*.
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.

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*.

24.6.3.1 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 11.6.4: Admission Tests*)

GRE: Graduate Records Examination (see *section 11.6.4: 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 11.6.5: 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.

24.6.4 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* 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*.

24.6.5 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:

Competency in English		
iBT (Internet-based test)	PBT (paper-based test)	CBT (computer-based test)*
86 overall (no less than 20 in each of the four component scores)	550	* 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.
6. Edexcel London Test of English – Level 5 – with an overall grade of at least "Pass."
7. McGill Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

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

24.6.6 Admission to a Qualifying Program

Some applicants whose academic degrees and Standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program 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.

24.6.7 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.

24.6.8 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.

24.6.9 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 shall be signed by the Chairs of both departments involved and shall explicitly list the conditions imposed. The student shall undertake research under the joint supervision of both departments.

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

24.6.10 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.

Revised – Council of February 9, 2004.

24.6.11 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.

24.7 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies
(Fellowships and Awards Section)
James Administration Building, Room 400
845 Sherbrooke Street West
Montreal, QC H3A 0G4
Telephone: 514-398-3990
Fax: 514-398-2626
Website: *www.mcgill.ca/gps/funding*

The Fellowships and Awards section 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 departments. Most internal fellowships are awarded in this manner—please contact the proposed academic department directly for further information.

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

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. All French citizens and a limited number of citizens of countries in the list, which can be found at *www.mels.gouv.qc.ca/sections/publications/index.asp*, are eligible for such exemptions. For more information and the necessary application materials, see *www.mels.gouv.qc.ca/international/index_en.asp?page=progExemp*. 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 departmental nominations made to the Fellowships and Awards section. Eligible students should contact their McGill department.

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 fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. **Registration**

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

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

3. **Appointment, Pay, Agreement of Conditions**

   i. Appointments may not exceed your registration eligibility status.

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

   iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—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 11.8.3: Vacation Policy for Graduate Students and Postdocs* and *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > Regulations > Categories of Students > section 2.1.11: 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.

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

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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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 procedure under *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 2.1.11: 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/students/progress/leave-vacation* under "Information on the 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 *Programs, Courses and University Regulations > 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 *Programs, Courses and University Regulations > University Regulations and Resources > Graduate > section 4: 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 2013–2014 session as listed, but the Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable.

24.11.1 Atmospheric and Oceanic Sciences

24.11.1.1 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*

24.11.1.2 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 faculty members have close ties with other departments, schools, and centres, including the Chemistry, and 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 24.11.1.5: 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 24.11.1.6: 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 disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students following the Environment option must first be accepted by the Department of Atmospheric and Oceanic Sciences, and then by the McGill School of Environment (MSE) before an offer of admission will be made by the University. Environment option students require either a single supervisor with a joint appointment in Atmospheric and Oceanic Sciences and the MSE, or co-supervisors, one each in Atmospheric and Oceanic Sciences and the MSE.

section 24.11.1.7: 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.

24.11.1.3 Atmospheric and Oceanic Sciences Admission Requirements and Application Procedures

24.11.1.3.1 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.

24.11.1.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

24.11.1.3.2.1 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

24.11.1.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 31	Fall: March 31	Fall: March 31
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

Note: Applications for Summer term admission will not be considered.

24.11.1.4 Atmospheric and Oceanic Sciences Faculty

Chair

J.R. Gyakum

Emeritus Professors

J.F. Derome; B.Sc., M.Sc.(McG.), Ph.D.(Mich.), F.R.S.C.

H.G. Leighton; B.Sc., M.Sc.(McG.), Ph.D.(Alta.)

L.A. Mysak; C.M., B.Sc.(Alta.), M.Sc.(Adel.), A.M., Ph.D.(Harv.), F.R.S.C. (*Canada Steamship Lines Professor of Meteorology*)

I. Zawadzki; B.Sc.(Buenos Aires), M.Sc., Ph.D.(McG.), F.R.S.C.

Professors

P. Ariya; B.Sc., Ph.D.(York) (*James McGill Professor*) (*joint appt. with Chemistry*)

J.R. Gyakum; B.Sc.(Penn. St.), M.Sc., Ph.D.(MIT)

M.K. Yau; S.B., S.M., Sc.D.(MIT) (*NSERC/Hydro-Québec Industrial Research Chair in Short-term Forecasting of Precipitation*)

Associate Professors

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; Ph.D.(Wash.)

J. Palter; B.Sc., Ph.D.(Duke)

Adjunct Professors

A. Dastoor; Ph.D.(Indian IT)

L. Fillion; Ph.D.(McG.)

P. Gauthier; Ph.D.(McG.)

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)

24.11.1.5 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)

ATOC 691	(3)	Master's Thesis Literature Review
ATOC 692	(6)	Master's Thesis Research 1
ATOC 694	(3)	Master's Thesis Progress Report and Seminar
ATOC 699	(12)	Master's Thesis

Students registered in M.Sc. programs are expected to regularly attend both the student seminar series (ATOC 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Complementary Courses (21 credits)

Must complete or have completed the following courses or equivalent:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Physics
ATOC 619*	(3)	Advanced Atmospheric Chemistry
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	(3)	Mesoscale Meteorology
CHEM 619*	(3)	Advanced Atmospheric Chemistry

* Students may select either ATOC 619 or CHEM 619.

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.

24.11.1.6 Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) — Environment (45 credits)

Thesis Courses (24 credits)

ATOC 691	(3)	Master's Thesis Literature Review
ATOC 692	(6)	Master's Thesis Research 1
ATOC 694	(3)	Master's Thesis Progress Report and Seminar
ATOC 699	(12)	Master's Thesis

Students registered in M.Sc. programs are expected to regularly attend both the student seminar series (ATOC 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (15 credits)

12 credits of Departmental courses chosen from the following:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Physics
ATOC 619*	(3)	Advanced Atmospheric Chemistry
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	(3)	Mesoscale Meteorology
CHEM 619*	(3)	Advanced Atmospheric Chemistry

or another course at the 500 level or higher recommended by the Department's Graduate Program Director.

* Students may select either ATOC 619 or CHEM 619.

3 credits of MSE courses chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species

ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

24.11.1.7 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)

ATOC 700	(1)	Ph.D. Proposal Seminar
ATOC 701	(0)	Ph.D. Comprehensive (General)

Complementary Courses (7 credits)

Students are required to take ATOC 751D1 and ATOC 751D2 OR ATOC 752D1 and ATOC 752D2.

1 credit from:

ATOC 751D1	(.5)	Seminar: Physical Meteorology
ATOC 751D2	(.5)	Seminar: Physical Meteorology
ATOC 752D1	(.5)	Atmospheric, Oceanic and Climate Dynamics
ATOC 752D2	(.5)	Atmospheric, Oceanic and Climate Dynamics

And 6 credits from the Department of Atmospheric and Oceanic Sciences, at the 500 or 600 level, as approved by the Graduate Program Director.

24.11.2 Biology

24.11.2.1 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*

24.11.2.2 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 “options” in certain specific areas: Neotropical Environment (NEO), Bioinformatics, Environment, and Developmental Biology.

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.

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 24.11.2.5: 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 24.11.2.6: Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)

The Environment graduate option 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 option 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 option 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 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 interact with students from a wide range of disciplines.

section 24.11.2.7: 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 option for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Participation in the MSE-Panama Symposium presentation in Montreal is also required. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 24.11.2.8: Master of Science (M.Sc.); Biology (Thesis) — Bioinformatics (48 credits)

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 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 option 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 option. Students in this option will have access to five specialized courses that are open only to students within the Bioinformatics option. At the M.Sc. level, students successfully completing the Bioinformatics option will be fluent in the concepts, language, approaches, and limitations of the field.

section 24.11.2.9: 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.

section 24.11.2.10: Doctor of Philosophy (Ph.D.); Biology — Developmental Biology

The option in Developmental Biology brings together the strong concentration of outstanding developmental biology researchers at McGill and across Montreal to offer students the opportunity to pursue cutting-edge research in developmental biology in a rich and collaborative environment. This option is intended to provide broad training in developmental biology and offers research opportunities with a variety of vertebrate, invertebrate, and plant model systems, including *Drosophila*, *C. elegans*, *Arabidopsis*, and mice. Participating faculty are drawn from research institutions across Montreal in addition to the Department of Biology, including the Montreal Neurological Institute and Hospital, the *Institut de recherches cliniques de Montréal* (IRCM), and the Rosalind and Morris Goodman Cancer Centre. The synergies arising from this network enhance a unique training environment that provides students with outstanding theoretical and practical preparation for a future career in science. This Ph.D. program is distinguished from the graduate program in Biology because entering students will carry out three research "rotations" during their first semester, allowing them to experience a variety of research areas before choosing a supervisor for the remainder of their graduate work. Students enter directly from their undergraduate studies, and the primary criterion for admission to the program is a strong background in research at the undergraduate level. It is also expected that candidates will have a CGPA of 3.5 or better, although exceptions may be made for applicants with outstanding research experience. Students will also participate in courses, retreats, and symposia specific to the program.

section 24.11.2.11: Doctor of Philosophy (Ph.D.); Biology — Environment

The Environment graduate option 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 option 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 option 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 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 interact with students from a wide range of different disciplines. This option 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).

section 24.11.2.12: Doctor of Philosophy (Ph.D.); Biology — Neotropical Environment

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based option for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program.

NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 24.11.2.13: Doctor of Philosophy (Ph.D.); Biology — Bioinformatics

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 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 option 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 option. Students in this option will

section 24.11.2.13: Doctor of Philosophy (Ph.D.); Biology — Bioinformatics

have access to five specialized courses that are open only to students within the Bioinformatics option. 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.

24.11.2.3 Biology Admission Requirements and Application Procedures

24.11.2.3.1 Admission Requirements

Applicants must have a B.Sc. in a discipline relevant to the proposed field of study with an overall cumulative grade point average (CGPA) of 3.0/4.0 or a CGPA of 3.2/4.0 for the last two full-time academic years. Graduate Record Examination (GRE) scores are not required, but may be submitted. The Test of English as a Foreign Language (TOEFL) is required of applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone). A score of 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.

24.11.2.3.2 Application Procedures

McGill's online application form for graduate program candidates is available at *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 11.6.3: Application Procedures* for detailed application procedures.

24.11.2.3.2.1 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

24.11.2.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: Jan. 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Aug. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

If application materials are received after the application deadlines, review of the applicant's file may be delayed until the following admittance period. All inquiries pertaining to admission procedures should be directed to the Graduate Admissions Secretary.

Note: Applications for Summer term admission will not be considered.

24.11.2.4 Biology Faculty

Chair

Graham A.C. Bell

Chair of Graduate Program

Lauren Chapman

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.(Calc.), M.Sc.(BYU), Ph.D.(Utah)

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.)

Rajinder S. Dhindsa; B.Sc., M.Sc.(Punj.), Ph.D.(Wash.)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT) (*Molson Professor of Genetics*) (*Associate Member in Anatomy and Cell Biology*) (*James McGill Professor*)

Martin J. Lechowicz; B.A.(Mich. St.), M.S., Ph.D.(Wisc.)

Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.) (*on sabbatical 2013–2014*)

Gerald S. Pollack; M.A., Ph.D.(Princ.)

Catherine Potvin; B.Sc., M.Sc.(Montr.), Ph.D.(Duke)

Neil M. Price; B.Sc.(New Br.), Ph.D.(Br. Col.)

Daniel J. Schoen; B.Sc., M.Sc.(Mich.), Ph.D.(Calif.) (*Macdonald Professor of Botany*)

Associate Professors

Ehab Abouheif; M.Sc.(C'dia), Ph.D.(Duke)

Thomas E. Bureau; B.Sc.(Calif.), Ph.D.(Texas) (*William Dawson Scholar*)

Melania Cristescu; B.Sc., M.Sc.(Ovidius Univ. Constanta)

Joseph A. Dent; B.Sc.(Mich.), Ph.D.(Colo.)

François Fagotto; Ph.D.(Neuchâtel)

Gregor Fussmann; Dipl.(Berlin), Ph.D.(Max Planck Institute)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.)

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.)

Laura Nilson; B.A.(Colgate), Ph.D.(Yale)

Simon Reader; B.A.(Colgate), Ph.D.(Yale) (*Canada Research Chair in Developmental Genetics*)

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) (*Canadian Pacific Chair in Biotechnology*)

Tamara Western; B.Sc.(Dal.), Ph.D.(Br. Col.)

Monique Zetka; B.Sc., Ph.D.(Br. Col.)

Assistant Professors

Gary Brouhard; M.S.E., Ph.D.(Mich.)

David Dankort; B.Sc., Ph.D.(McM.)

Jonathan Davies; M.Sc.(Cape Town), Ph.D.(Imperial Coll., Lond.)

Nam-Sung Moon; B.Sc., Ph.D.(McG.)

Rodrigo Reyes Lamothe; Lic.(UNAM), M.Sc.(C'dia), D.Phil.(Oxf.)

Jon Sakata; B.A.(C'Nell), Ph.D.(Texas-Austin)

Assistant Professors

Alanna J. Watt; B.Sc.(C'dia), Ph.D.(Brandeis)

Sarah Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin)

Hugo Zheng; M.Sc.(Helsinki), Ph.D.(Oxf. Brookes) (*on sabbatical 2013–2014*)

Associate Members

Anatomy and Cell Biology: Nathalie Lamarche-Vane, Craig Mandato

Anthropology: Colin Chapman

Biochemistry: Maxime Bouchard

Centre for Research in Neuroscience: Sal Carbonetto, Yong Rao, Donald Van Meyel

MCH: Feige Kaplan, Rima Rozen

Medical Genetics, Chair: David Rosenblatt

MNI: Kenneth Hastings, Stefano Stifani

Physics: Paul Francois

Redpath Museum: Rowan Barrett, David Green, Hans Larsson, Virginie Millien, Anthony Ricciardi

RVH: Hugh J. Clarke, Daniel Dufort, Teruko Taketo

Adjunct Professors

BELLUS Health Inc.: Francesco Bellini

CNRS Moulis, France: Michel Loreau

IRCM: Frédéric Charron, David Hipfner, Artur Kania, Marie Kmita

NRC Lab: Malcolm S. Whiteway

STRI: Eldredge Bermingham, Rachel Collin, Hector Guzman, Edward Allen Herre, Haris Lessios, William Owen McMillan, Mark Torchin

Univ. de Montréal: Pierre Drapeau

24.11.2.5 Master of Science (M.Sc.); Biology (Thesis) (45 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

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.

24.11.2.6 Master of Science (M.Sc.); Biology (Thesis) — Environment (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 650	(1)	Environmental Seminar 1

ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (3 credits)

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 graduate course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

24.11.2.7 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)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

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.

24.11.2.8 Master of Science (M.Sc.); Biology (Thesis) — Bioinformatics (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master's Thesis Research 1
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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

24.11.2.9 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)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar

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.

24.11.2.10 Doctor of Philosophy (Ph.D.); Biology — Developmental 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 (12 credits)

BIOL 520	(3)	Gene Activity in Development
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar

Complementary Course (3 credits)

One course chosen from the following:

BIOL 544	(3)	Genetic Basis of Life Span
BIOL 569	(3)	Developmental Evolution
BIOL 592	(3)	Integrated Bioinformatics
EXMD 607	(3)	Molecular Control of Cell Growth
EXMD 608	(3)	Molecular Embryology
HGEN 692	(3)	Human Genetics
NEUR 605	(3)	Neuroscience Seminar 4

or another graduate course at the 500, 600, or 700 level chosen in consultation with the student's supervisor.

Additional courses may be required if the student's background is deemed insufficient.

24.11.2.11 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)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
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 Course (3 credits)

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another graduate course at the 500, 600, or 700 level recommended by the Advisory Committee and approved by the Environment Option Committee.

24.11.2.12 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)

BIOL 640	(3)	Tropical Biology and Conservation
BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
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.

24.11.2.13 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)

BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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

24.11.3 Chemistry

24.11.3.1 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*

24.11.3.2 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 pharmaceutically relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

Chemical Physics

The research interests of the members of the Chemical Physics Thematic Research Group are diverse, with groups focusing on high-end laser and NMR spectroscopies, kinetics and modelling of atmospheric chemical reactions, experimental and theoretical biophysical chemistry, polymers at interfaces, and

statistical and quantum mechanics. In the field of biophysical chemistry, single molecule spectroscopy is being used to probe enzyme function as well as DNA recombination and repair. Our recent advances in image correlation spectroscopic techniques now allow researchers to precisely follow the macromolecular dynamics in living cells. In a similar vein, breakthrough ultra-fast electron diffraction experiments have opened the window to real-time observation of the making and breaking of chemical bonds. State-of-the-art multi-pulse femtosecond spectroscopy experiments are being applied to interesting and technologically important new materials such as photonic crystals and quantum dot superlattices. A molecular-level picture of polymer dynamics and structure at surfaces and interfaces is being developed through theoretical modelling, high-field solids NMR spectroscopy, electron microscopy, and other surface characterization methods. In the area of atmospheric chemistry, the chemical transformation of the atmosphere is being modelled both experimentally and theoretically to understand how these processes are currently affecting and driving climate change. Finally, we have basic theory projects relating to the experimental work just described, as well as in transport and structure in complex colloidal or zeolite systems, protein dynamics, and fundamental issues in quantum and statistical mechanics.

Materials Chemistry

The chemistry of materials is a rapidly evolving domain of research. Materials chemistry seeks to understand how composition, reactivity, and structure are related to function from a molecular perspective. The functionality of materials is expressed in a variety of areas including photonics, micro- and nano-electronics, biosystems, nanotechnology, drug delivery, catalysis, polymer science, molecular biology, and chemical and biological sensing. Activities of the Materials Chemistry Thematic Research Group are often broadly interdisciplinary. University-wide synergies among members of this group have led to the creation of the McGill Institute for Advanced Materials (**MIAM**) and the McGill Nanotools Facility. The latter comprises state-of-the-art **micro/nanofabrication**, atomic manipulation and high-performance computing facilities. MIAM and members of the Chemistry Department have established research that links the **Centre for Self Assembled Chemical Structures**, the **Centre for 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 speciality organic chemical and materials.

section 24.11.3.5: Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Please consult the Department for more information about this program.

section 24.11.3.6: Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits)

Not offered in 2013–2014.

section 24.11.3.7: Doctor of Philosophy (Ph.D.); Chemistry

Please consult the Department for more information about this program.

section 24.11.3.8: Doctor of Philosophy (Ph.D.); Chemistry — Chemical Biology

Not offered in 2013–2014.

24.11.3.3 Chemistry Admission Requirements and Application Procedures

24.11.3.3.1 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.

24.11.3.3.2 Application Procedures

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

See *section 11.6.3: 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.

24.11.3.3.2.1 Additional Requirements

- GRE – may be required for international degrees

24.11.3.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: June 1	Fall: March 15	Fall: June 1
Winter: Oct. 15	Winter: Sept. 30	Winter: Oct. 15
Summer: N/A	Summer: N/A	Summer: N/A

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.

24.11.3.4 Chemistry Faculty

Chair

R.B. Lennox

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.)

D.H. Burns; B.Sc.(Puget Sound), Ph.D.(Wash.)

I.S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C.

M.J. Damha; B.Sc., Ph.D.(McG.), F.C.I.C.

D.N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), 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.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)

D. Perepichka; B.Sc.(Donetsk St. U, Ukraine), Ph.D.(Nat. Aca. Sci., Ukraine)

J.F. Power; B.Sc., Ph.D.(C'dia)

L. Reven; B.A.(Car.), Ph.D.(Ill.)

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.(C'nell), Ph.D.(Calif., Berk.)

A. Moores; B.Sc., Ph.D.(École Polytechnique, Paris)

B. Siwick; B.A.Sc. Eng. Sci., M.Sc., Ph.D.(Tor.)

Associate Members

J.A. Finch (*Mining, Metals and Materials Engineering*)

P. Grütter (*Physics*)

O.A. Mamer (*University Clinic, RVH*)

R. Schirrmacher (*MNI*)

Adjunct Professors

Y. Guindon, C. Reber, I. Wharf, C.T. Yim, R. Zamboni

24.11.3.5 Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Thesis Courses

(24-31 credits)

At least 24 credits chosen from the following:

CHEM 691	(3)	M.Sc. Thesis Research 1
CHEM 692	(6)	M.Sc. Thesis Research 2
CHEM 693	(9)	M.Sc. Thesis Research 3
CHEM 694	(12)	M.Sc. Thesis Research 4
CHEM 695	(15)	M.Sc. Thesis Research 5
CHEM 697	(9)	M.Sc. Thesis Research 7
CHEM 698	(12)	M.Sc. Thesis Research 8

Required Courses

(5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses

(9-16 credits)

Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.

24.11.3.6 Master of Science (M.Sc.); Chemistry (Thesis) — Chemical Biology (45 credits)

Not offered in 2013-2014.

Thesis Courses (24 credits)

(minimum 24 credits)

At least 24 credits chosen from the following:

CHEM 691	(3)	M.Sc. Thesis Research 1
CHEM 692	(6)	M.Sc. Thesis Research 2
CHEM 693	(9)	M.Sc. Thesis Research 3
CHEM 694	(12)	M.Sc. Thesis Research 4
CHEM 695	(15)	M.Sc. Thesis Research 5
CHEM 697	(9)	M.Sc. Thesis Research 7
CHEM 698	(12)	M.Sc. Thesis Research 8

Required Courses (5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses (11 credits)

(minimum 11 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

Students will take at least three courses from the following list, including at least 3 credits from the first two courses listed below:

BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1

CHEM 504	(3)	Drug Design and Development 2
CHEM 514	(3)	Biophysical Chemistry
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 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHAR 707	(3)	Topics in Pharmacology 6

The remaining credits may be graduate-level courses approved by the Department.

24.11.3.7 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

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment
CHEM 701	(0)	Comprehensive Examination 1
CHEM 702	(0)	Comprehensive Examination 2

Complementary Courses

Students entering the program with an M.Sc. degree will normally take three (3) graduate-level courses. Students entering without an M.Sc. degree will normally take five (5) graduate-level courses.

Students may be required to take advanced undergraduate courses if background deficient.

24.11.3.8 Doctor of Philosophy (Ph.D.); Chemistry — Chemical Biology

Not offered in 2013-2014.

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

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

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment
CHEM 701	(0)	Comprehensive Examination 1
CHEM 702	(0)	Comprehensive Examination 2

Complementary Courses

Students entering the program with an M.Sc. degree will normally take three (3) graduate-level courses. Students entering without an M.Sc. degree will normally take five (5) graduate-level courses. At least three courses must be from the following list, including at least 3 credits from the first two courses listed below.

BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Design and Development 1
CHEM 504	(3)	Drug Design and Development 2
CHEM 514	(3)	Biophysical Chemistry
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 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHAR 707	(3)	Topics in Pharmacology 6

The remaining credits may be 500-, 600-, or 700-level courses approved by the Department.

24.11.4 Computer Science

24.11.4.1 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*

24.11.4.2 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, modelling 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 program is posted. Any questions concerning the program should be addressed to the Graduate Coordinator.

section 24.11.4.5: 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 24.11.4.6: 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 24.11.4.7: 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 24.11.4.8: 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 24.11.4.9: 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 24.11.4.10: 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.

24.11.4.3 Computer Science Admission Requirements and Application Procedures

24.11.4.3.1 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 indicated in the brochure "Information for Applicants to Graduate Programs."

The brochure supplements 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.

24.11.4.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

24.11.4.3.2.1 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) – required for degrees from outside Canada. Recommended for Ph.D. program.

24.11.4.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 1	Fall: March 1	Fall: March 1
Winter: Sept. 1 (Ph.D. only)	Winter: Sept. 1 (Ph.D. only)	Winter: Sept. 1 (Ph.D. only)
Summer: N/A	Summer: N/A	Summer: N/A

Application documents are also available on our website at *www.cs.mcgill.ca/prospective-students/graduate/applying/applying*.

Deadlines: January 1 for applicants who wish to be considered for scholarship awards; otherwise, March 1 for admission to the Fall term.

24.11.4.4 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*)

G. Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.) (*James McGill Professor*)

L. Hendren; B.Sc., M.Sc.(Qu.), Ph.D.(C'nell), 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)

P. Hayden; B.Sc.(McG.), Ph.D.(Oxf.)

B. Kemme; B.Sc., M.Sc.(Univ. of 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)

Associate Professors

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. Waldispuhl; 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

P.J. Mosterman, T. Perkins, I. Rekleitis, G.O. Sabidussi, M. Tabaeh Izadi, H. Vangheluwe

24.11.4.5 Master of Science (M.Sc.); Computer Science (Thesis) (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

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.

24.11.4.6 Master of Science (M.Sc.); Computer Science (Thesis) — Bioinformatics (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

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.

24.11.4.7 Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Required Courses

One credit selected as follow:

COMP 669D1	(.5)	Computational Science Engineering Seminar
COMP 669D2	(.5)	Computational Science Engineering Seminar

Complementary Courses

(minimum 21 credits)

Two courses from List A, 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
COMP 557	(3)	Fundamentals of Computer Graphics
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)	Theory of Elasticity
MECH 642	(4)	Advanced Dynamics
MECH 650	(4)	Fundamentals of Heat Transfer
MECH 654	(4)	Compt. Fluid Flow and Heat Transfer

24.11.4.8 Master of Science (M.Sc.); Computer Science (Non-Thesis) (45 credits)

Research Project (15 credits)

15 credits selected as follows:

COMP 693	(3)	Research Project 1
COMP 694	(6)	Research Project 2
COMP 695	(6)	Research Project 3

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.

24.11.4.9 Doctor of Philosophy (Ph.D.); Computer Science

Required coursework: Students must take eight graduate courses, of which at least five are computer science courses. These courses should be chosen by the student in consultation with the supervisor (or co-supervisor) and the Progress Committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

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
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
COMP 535	(3)	Computer Networks 1
COMP 546	(4)	Computational Perception
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision
COMP 575	(3)	Fundamentals of Distributed Algorithms
COMP 598	(3)	Topics in Computer Science 1
COMP 599	(3)	Topics in Computer Science 2
COMP 612	(4)	Database Programming Principles
COMP 614	(4)	Distributed Data Management
COMP 621	(4)	Program Analysis and Transformations
COMP 652	(4)	Machine Learning
COMP 655	(4)	Distributed Simulation
COMP 667	(4)	Software Fault Tolerance
COMP 762	(4)	Advanced Topics Programming 1
COMP 763	(4)	Advanced Topics Programming 2
COMP 764	(4)	Advanced Topics Systems 1
COMP 765	(4)	Advanced Topics Systems 2
COMP 766	(4)	Advanced Topics Applications 1
COMP 767	(4)	Advanced Topics: Applications 2

Note: Each year the Ph.D. Committee will determine which category COMP 598 and COMP 599 belong to according to the subjects taught in those courses.

24.11.4.10 Doctor of Philosophy (Ph.D.); Computer Science — Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
COMP 700	(0)	Ph.D. Comprehensive Examination
COMP 701	(3)	Thesis Proposal and Area Examination

Complementary Courses

Two courses chosen from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee. Students who have completed the M.Sc.-level option in Bioinformatics must complete 6 credits of complementary courses not taken in the master's program.

24.11.5 Earth and Planetary Sciences

24.11.5.1 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*

24.11.5.2 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, XRF, 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

Subduction earthquake nucleation and rupture propagation processes. Physical mechanism of aseismic deformation transients, deep non-volcanic tremors, dynamic and static stress triggering of low-frequency earthquakes and transients. Pore-fluid pressure coupling with frictional strength and slip.

Tectonics

The interactions of climate and tectonics, especially in regard to the formation and degradation of orogens. Understanding the paleoclimatic and neotectonic history of Plio-Pleistocene landscape development using cosmogenic-dating techniques. 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 24.11.5.5: 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 24.11.5.6: 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 24.11.5.7: 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.

section 24.11.5.7: Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences

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 24.11.5.8: 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.

24.11.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures

24.11.5.3.1 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 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.

24.11.5.3.2 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 11.6.3: Application Procedures* for detailed application procedures.

24.11.5.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: March 15	Fall: March 15	Fall: March 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

24.11.5.4 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)

Professors

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)

Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich) (*Director, Electron Microscopy Centre*)

Boswell Wing; A.B.(Harv.), M.A., Ph.D.(Johns Hop.)

Assistant Professors

Eric Galbraith; B.Sc.(McG.), Ph.D.(Br. Col.)

Rebecca Harrington; B.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

24.11.5.5 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

Required Course (3 credits)

EPSC 666	(3)	Current Issues in Geosciences

Complementary Courses (9 credits)

Three 3-credit 500-, 600-, or 700-level EPSC courses chosen with the approval of the supervisor or the research director and GPS.

24.11.5.6 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.

24.11.5.7 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 six graduate-level courses in the Ph.D. 1 year, and two courses plus a comprehensive oral examination in the Ph.D. 2 year.

Note: The Ph.D. requirements for this program will be changing effective Winter 2013.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

EPSC 666	(3)	Current Issues in Geosciences
EPSC 700	(0)	Preliminary Doctoral Examination

Complementary Courses

One to seven courses approved at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

24.11.5.8 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences — 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
EPSC 666	(3)	Current Issues in Geosciences
EPSC 700	(0)	Preliminary Doctoral Examination

Complementary Courses

One to five courses

One course 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 with the student's supervisor and approved by the Academic Standing Committee.

Zero to four courses at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

24.11.6 Geography

24.11.6.1 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.geog.mcgill.ca*

24.11.6.2 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 Hitschfield 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 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 12.11.9.5: 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 12.11.9.6: 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 12.11.9.7: 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 12.11.9.8: 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 12.11.9.9: 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 12.11.9.10: 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

section 12.11.9.10: Master of Arts (M.A.); Geography (Thesis) — Social Statistics (45 credits)

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 24.11.6.5: 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 24.11.6.6: 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 24.11.6.7: 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 12.11.9.11: 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 12.11.9.12: 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 12.11.9.13: 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 12.11.9.14: 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

section 12.11.9.14: Doctor of Philosophy (Ph.D.); Geography — Neotropical Environment

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.

24.11.6.3 Geography Admission Requirements and Application Procedures

24.11.6.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in *section 11.6: 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.

24.11.6.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

24.11.6.3.2.1 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
- *Department application form*

24.11.6.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 31	Fall: Jan. 31	Fall: Jan. 31
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

24.11.6.4 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.) (*joint 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

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

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.)

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

L. Berrang Ford; M.A.(Oxf.), Ph.D.(Guelph)

J. Ford; Ph.D.(Guelph)

M. Kalacska; Ph.D.(Alta.)

B. Lehner; Ph.D.(Frankfurt)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

Adjunct Professors

R. Cooke, E. Levac, G. Peterson

Course Lecturer

G. Akman

24.11.6.5 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.

24.11.6.6 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
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.

24.11.6.7 Master of Science (M.Sc.); Geography (Thesis) — Neotropical Environment (45 credits)

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

Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Courses (9 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
GEOG 631	(3)	Methods of Geographical Research

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Course (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approval by the student's supervisor AND the Neotropical Environment Options Director.

24.11.6.8 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

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

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

24.11.6.9 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

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

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Comprehensives

GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

24.11.6.10 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

GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

24.11.6.11 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.

24.11.7 Mathematics and Statistics

24.11.7.1 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*

24.11.7.2 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 12.11.16.5: 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 12.11.16.6: 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 24.11.7.5: 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 24.11.7.6: 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 24.11.7.7: 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 24.11.7.8: 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 12.11.16.7: 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 12.11.16.8: 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.

24.11.7.3 Mathematics and Statistics Admission Requirements and Application Procedures

24.11.7.3.1 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.

24.11.7.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

24.11.7.3.2.1 Additional Requirements

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

- Research Proposal – in the proposal, applicants should clearly explain their choice of preferred research group(s) and specific research topics of particular interest (if any)
- 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*.

24.11.7.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Same as Canadian/International

Canadian	International	Special/Exchange/Visiting
Winter: Sept. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

24.11.7.4 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; 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*)

Olga Kharlampovich; M.A.(Ural St.), Ph.D.(Lenin.), Dr. of Sc.(Steklov Inst.)

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*)

Professors

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

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)

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

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)

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*)

Associate Members

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.)

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.)

24.11.7.5 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.

24.11.7.6 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.

24.11.7.7 Master of Science (M.Sc.); Mathematics and Statistics (Thesis) — Computational Science and Engineering (47 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

(1 credit)

MATH 669D1	(.5)	CSE Seminar
MATH 669D2	(.5)	CSE Seminar

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:

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 - Applications 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
COMP 557	(3)	Fundamentals of Computer Graphics
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)	Theory of Elasticity
MECH 642	(4)	Advanced Dynamics
MECH 650	(4)	Fundamentals of Heat Transfer
MECH 654	(4)	Compt. Fluid Flow and Heat Transfer

24.11.7.8 Master of Science (M.Sc.); Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)

MATH 640	(8)	Project 1
MATH 641	(8)	Project 2

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

24.11.7.9 Doctor of Philosophy (Ph.D.); Mathematics and Statistics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

MATH 700	(0)	Ph.D. Preliminary Examination Part A
MATH 701	(0)	Ph.D. Preliminary Examination Part B

Complementary Courses

Twelve approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

24.11.7.10 Doctor of Philosophy (Ph.D.); Mathematics and Statistics — Bioinformatics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
MATH 700	(0)	Ph.D. Preliminary Examination Part A
MATH 701	(0)	Ph.D. Preliminary Examination Part B

Complementary Courses (6 credits)

(3-6 credits)

The twelve one-semester complementary courses for the Ph.D. degree must include at least two from the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the list below must be chosen:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

24.11.8 Physics

24.11.8.1 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*

24.11.8.2 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, 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 CLUMEQ 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 $21,400 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 non-equilibrium systems via x-ray diffraction, fundamental quantum properties of strongly correlated systems at temperatures very near absolute zero, macromolecular interactions in living cells using single-photon and two-photon imaging, molecular electronics and nanoelectronic systems by scanning probe microscopy, dynamics and mechanical properties of soft matter systems and spatial organization and dynamics in living cells, mechanical behaviour of very small systems by high-resolution force microscopy, electronic

properties that emerge at the limits of miniaturization and quantum computing, 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, guantum 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 24.11.8.5: 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 24.11.8.6: 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.

24.11.8.3 Physics Admission Requirements and Application Procedures

24.11.8.3.1 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.

24.11.8.3.2 Application Procedures

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

See *section 11.6.3: 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.

24.11.8.3.2.1 Additional Requirements

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

- GRE – recommended but not required

24.11.8.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

24.11.8.4 Physics Faculty

Chair

C. Gale

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)

S.K. Mark; B.Sc., M.Sc., 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.)

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.(C'nell) (*Canada Research Chair*)

A. Cumming; B.A.(Camb.), Ph.D.(Calif., Berk.)

K. Dasgupta; M.Sc., Ph.D.(TIFR)

Associate Professors

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*)

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. 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.(C'nell)

B. Siwick; B.Sc., M.Sc., Ph.D.(Tor.) (*Canada Research Chair*) (*joint appt. with Chemistry*)

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*)

K. Gehring (*Biochemistry*)

P. Hayden (*Computer Science*)

P. Kambhampati (*Chemistry*)

A. Khadra (*Physiology*)

M. Mackey (*Physiology*)

Z. Mi (*Electrical and Computer Engineering*)

J. Nadeau (*Biomedical Engineering*)

E. Podgorsak (*Medical Physics*)

D. Rassier (*Kinesiology*)

D. Ronis (*Chemistry*)

J. Seuntjens (*Medical Physics*)

T. Szkopek (*Electrical and Computer Engineering*)

F. Verhaegen (*Medical Physics*)

Adjunct Professors

G. Austing, R. Bennewitz, F. Drolet, M. Grisaru, O. Hernandez, L. Piché, A. Sachrajda, J. Vinals

24.11.8.5 Master of Science (M.Sc.); Physics (Thesis) (45 credits)

Thesis Courses (30 credits)

PHYS 690	(24)	M.Sc. Thesis
PHYS 692	(6)	Thesis Project

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.

24.11.8.6 Doctor of Philosophy (Ph.D.); Physics

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Candidates must successfully complete two 3-credit graduate courses at the 600 level or above; one of these courses should be in the candidate's area of specialization. If the candidate completed two or more courses at the 600 level as part of the McGill Physics M.Sc. program, then one of these courses may be used as a substitute for one of the required courses. In all cases, candidates must also pass the Ph.D. preliminary examination (PHYS 700).

PHYS 700	(0)	Preliminary Ph.D. Examination

24.11.9 Psychology

24.11.9.1 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*

24.11.9.2 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 Hospital, Montreal Children's Hospital, and the Montreal General Hospital, to permit graduate students to undertake research in a hospital setting.

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 *Programs, Courses and University Regulations > Faculty of Medicine > Graduate > Academic Programs > section 19.11.14: 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 12.11.19.5: 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 24.11.9.5: 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 12.11.19.6: Doctor of Philosophy (Ph.D.); Psychology

Please contact the Department for more information about this program.

section 12.11.19.7: 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 12.11.19.8: 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.

24.11.9.3 Psychology Admission Requirements and Application Procedures

24.11.9.3.1 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.

24.11.9.3.2 Application Procedures

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

See *section 11.6.3: Application Procedures* for detailed application procedures.

24.11.9.3.2.1 Additional Requirements

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

- A completed Psychology *Summary Sheet* [.rtf] (upload in Academic Information Background Form)
- 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.

24.11.9.3.3 Application Deadlines

Canadian	International	Special/Exchange/Visiting
Fall: Dec. 15	Fall: Dec. 15	Fall: Dec. 15
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

24.11.9.4 Psychology Faculty

Chair

David Zuroff

Emeritus Professors

A.S. Bregman; M.A.(Tor.), Ph.D.(Yale)

D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(C'nell)

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.)

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.)

Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)

N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

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.)

Professors

F.H. Genesee; B.A.(W. Ont.), M.A., Ph.D.(McG.)

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.(C'nell) (*Canada Research Chair in Cognitive Neuropsychology Performance*)

M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)

B. Sherwin; B.A., M.A., Ph.D.(C'dia) (*Canada Research Chair in Hormones, Brain and Cognition*)

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

A.G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)

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*)

M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)

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)

Lecturers

R. Amsel, 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

Associate Members

McGill Vision Research Centre: C. Baker, R. Hess, F.A.A. Kingdom, K. Mullen

Montreal Neurological Institute and Hospital: J. Armony, A. Dagher, L.K. Fellows, D. Guitton, M. Jones-Gotman, M. Lepage, B. Milner, E. Ruthazer, W. Sossin, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, M. Leyton, J. Pruessner, A. Raz

Adjunct Professors

M. Bruck, S. Burstein, P. Delisle, J. Gradinger, S. Harnad, Z. Pleszewski, A.G. Ryder, P. Zelazo

Part-Time Appointments

E. Foley, J. LeGallais

24.11.9.5 Master of Science (M.Sc.); Psychology (Thesis) (45 credits)

Thesis Courses (27 credits)

PSYC 690	(15)	Masters Research 1
PSYC 699	(12)	Masters Research 2

Required Courses (18 credits)

PSYC 601	(6)	Master's Comprehensive
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

24.11.9.6 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)

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 degree 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

24.11.9.7 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)

EDSL 711	(2)	Language Acquisition Issues 3
LING 710	(2)	Language Acquisition Issues 2
PSYC 701	(6)	Doctoral Comprehensive Examination
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

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:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Complementary Courses (9 credits)

One graduate-level course in statistics, such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

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:

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
EDSL 664	(3)	Second Language Research Methods
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

24.11.9.8 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)

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

24.11.10 Redpath Museum

24.11.10.1 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*

24.11.10.2 About Redpath Museum

The Redpath Museum is a unique interdisciplinary unit within the Faculty of Science offering graduate training in research devoted to biosystematics, 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 is centred on collections-based study, object-oriented investigation, and fieldwork. Among the Museum's unique features are its courses on Scientific Writing.

24.11.10.3 Redpath Museum Admission Requirements and Application Procedures

24.11.10.3.1 Admission Requirements

The Redpath Museum does not have its own graduate program. All graduate students of the professors in the Redpath Museum have home departments in either Biology, Earth and Planetary Sciences, Anthropology, Natural Resource Sciences, or Education. Admission requirements are subject to those home departments' regulations.

24.11.10.3.2 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.

24.11.10.3.3 Application Deadlines

For more information, please contact the Graduate Program Coordinator in the department you are interested in.

24.11.10.4 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*)

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

Faculty Lecturer

Linda Cooper; B.A.(C'dia), M.A.(McM.)

Associate Members

Biology: Graham A.C. Bell, Lauren 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