Graduate and Postdoctoral Studies

Programs, Courses and University Regulations

2019-2020

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

1 . McGill University reserves the right to mak

Publication Information

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McGill University reserves the right to make changes to the information contained in this publication - including correcting errors, altering fees, schedules of admission and credit requirements, and revising or cancelling particular courses or programs - without prior notification.

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

2.2 Graduate and Postdoctoral Studies,

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1 University Regulations and Resources

1.1 Regulations

You must inform yourself 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 you during your studies at McGill and should be periodically consulted, along with other sections and related publications.

1.1.1 Authorization, Acknowledgement, and Consent

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

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

1.1.2 Categories of Students

You must inform yourself 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 you during your studies at McGill and should be periodically consulted, along with other sections and related publications.

1.1.2.1 Full-Time Students

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

1.1.2.2 Half-Time Students (Thesis Programs)

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

It is expected that half-time students will spend 50% of their time in the department participating in coursework, seminars, discussions, etc., with staff and full-time students. Half-time students are reminded that they must complete the degree within the time limitation imposed by Graduate and Postdoctoral Studies, and that if they choose to be half-time they must:

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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 eng

- 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 your eligibility for continuation or renewal of your award(s).

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

Note: Once the Quebec Inter-University Transfer (IUT) application is approved by both the home and host univ

1.1.3.1 Registration for Fall and Winter Terms (Including Additional Session and Non-Thesis Extension Students)

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

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

Returning Students:

Returning students register viaTm(.mcgill.ca/minerva)Tj0 G0 g/F1 8.1 lw8eforegister vMj0 G0 g/F1 8.1 Tf1 0 0 1 349.621 210.263 7(gister vd utween 0 1 223.249

- Thanks to a sponsorship program, nearly all doctoral students and most master's students can take Graphos courses **at no extra cost provided that they do not withdraw at any time and submit all required assignments.** For eligibility details, check

1.1.3.9.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 24, 2019

Deadlines for withdraw

Note for Health Sciences: Withdrawal (W) deadline dates are listed at *www.mcgill.ca/importantdates*. The health profession programs described in this eCalendar are highly structured and students should consult their adviser or Student Affairs Office to determine what course changes, if any, are allowed.

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. (Note 1 is not applicable to Medicine, Dentistry, and Nursing. For information, you should refer to your Faculty/School section in this publication.)
2. It is solely your responsibility to initiate a course withdrawal on *Minerva*. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on Minerva is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the course change deadline without academic penalty, provided that you do so within the appropriate withdrawal deadlines for the term (see deadlines above). Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with *section 1.8.8: Fees and Withdrawal from the University*.

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

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

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

Note for M.D.,C.M. program: Course changes are not permitted and withdrawals are only permitted when the student is on an *approved leave of absence* from the program.

1.1.3.10 Withdrawal from a Degree Program

You are withdrawn from the program if you have failed two courses for your program, or you failed the comprehensive examination. You may be withdrawn from the program if your progress is not satisfactory. Please see *section 1.2.2: Failure Policy*.

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

1.1.4 Course Information and Regulations

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

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

Not all courses listed are offered every year.

Note for Graduate Studies: You are advised to also refer to *University Regulations & Resources* > *Graduate* > *Regulations* > *section 1.1.3: Registration* and *section 1.1.8: Student Records*.

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

Note for Summer Studies: Refer to *: Student Types and Registration Procedures* and *: Student Records* for further information.

1.1.4.1 Class Schedule

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

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

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

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

Please note that the last day of classes in a term varies according to a course's schedule pattern (e.g., Mon-Wed-Fri, Tues-Thurs, Monday only, etc.). You may verify these details at *www.mcgill.ca/importantdates/key-dates*.

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

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

1.1.4.2 Course Numbering

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

The first four characters (subject code) refer to the unit offering the course.

These codes were implemented in September 2002, replacing the three-number teaching unit codes previously used. A complete list of teaching unit codes and their subject code equivalents can be found at *www.mcgill.ca/student-records/transcripts/keywselected sos9.25 669.42 Tm(yw72 Tm(The fiJ3or)Tj1Tm(:)Tj/F1 8.1 T*

1.1.4.4 Course Terminology

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

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

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

1.1.4.4.1 Course Nomenclature in Program Descriptions

Required Courses: Mandatory courses that must be completed to fulfil the requirements of a program (e.g., major, minor, etc. at the undergraduate level or specific courses at the graduate level), 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 electiv

- Deadline for University withdrawal without refund: **Tuesday, October 29, 2019**

1.1.5.2.2 Winter Term

From January 1 to January 21, 2020 a drop of all courses constitutes a University withdrawal with refund (minus $200 for returning students and the registration deposit for new students). After January 22 and until the deadlines indicated below, you may withdraw from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus $200 for returning students and the registration deposit for new students): **Tuesday, January 28, 2020**
- Deadline for University withdrawal without refund: **Tuesday, March 10, 2020**

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

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

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

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

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

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

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

1.1.5.3 Consequences of University Withdrawal

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

Once you withdraw, you must return your ID card to the University as stated in *section 1.1.11.1: Identification (ID) Cards*.

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

> **Note:** If you withdraw from the University and want to re-register in a later term, you must follow the procedures for readmission, except if you are in the follo1 0 0 ept if you

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

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

1.1.7 Program Requirements

1.1.7.1 Master's Degrees

Residency Requirements – Master's Degrees

1.1.8 Student Records

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

1.1.8.1 Grading and Grade Point Averages (GPA)

Classification of Grades:

Courses can be graded either by letter grades or in percentages, b

Other Course Grades:

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). (*Signed K contract required*)

L — deferred; for students whose final examinations or papers have been deferred, for reasons such as illness, at the time of the examination. Deferrals will not be granted for reasons such as early plane bookings. The "L" grade must be cleared as soon as possible (maximum four months). A dated medical certificate or appropriate document recommending a deferral must be submitted to *Service Point* with a departmental recommendation for a deferral **before or immediately after** the examination. In particular, such recommendations will not be considered if medical reasons are brought forth after a grade is assigned. By commencing to write any examination, the student waives the right to plead medical causes for deferral or permission to write a supplemental examination, unless the medical problem occurs in the course of the examination and is documented by examination authorities.

LE or L* — further deferral; permitted to defer examination for more than the normal period.

NA or && — grade not yet available.

NR — no grade reported by the instructor (recorded by the Registrar).

Q — course continued in next term; (applicable only to courses taken pre-Fall 2002).

Satisfactory/Unsatisfactory — *Not used on the transcripts of 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 — withdrew from deferred examination; 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.

1.1.8.1.1 Unexcused Absences

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

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

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

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

Note for Law: Option **1** is not available to students in the Faculty of Law. Option **3** is by approval of the Associate Dean (Academic) or the Director (Student Life & Learning) only.

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

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

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

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

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

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

Note for Graduate and Postdoctoral Studies: Only options 2 and 3 above are applicable to graduate students. Students wishing to appeal a J grade should write to the

1.1.8.2.5 Course Numbering on the Transcript

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

107-200A = Philosophy (107) course (200) in Fall term (A);
301-202B = Architecture (301) course (202) in Winter term (B);
154-230D = Economics (154) course (230) extending for two terms, Fall and Winter (D).

A list of the former teaching unit codes and their subject code equivalents is available at *www.mcgill.ca/student-records/transcripts/key*.

For information on our current course numbering, see *University Regulations & Resources* > *Undergraduate* > *Registration* > *Course Information and Regulations* > *section 1.1.4.2: Course Numbering*.

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

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

1.1.8.3 Verification of Student Records: Degree Evaluation

Degree Evaluation is a Minerva tool to help students and advisers compare the student's academic record with the requirements of a specific program. If you have access to Degree Evaluation on *Minerva* under the *Student Records Menu*, 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*.

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

Note for Nursing: You may view Degree Evaluation Reports on Minerva. However, if you have completed courses that differ from the School's defined "Course of Study" for the program you are completing, it is highly recommended that you do so in consultation with your academic adviser. Any questions about a Degree Evaluation Report or requests for adjustments should be discussed with the Nursing Student Affairs Office.

1.1.8.4 Changes to Student Records after Normal Deadlines

1.1.8.4.1 Student Record Changes

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

1.1.8.4.2 Registrar Deadlines

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

1.1.8.4.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the *section 1.1.8.4.2: Registrar Deadlines*, you must make a request in writing to your Associate Dean or Director, clearly explaining why you could not request the change before these dates. The Associate Dean or Director will review your request and make a decision. If your request is approved, the change is processed according to existing faculty and Enrolment Services student record procedures.

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

1.1.8.4.4 After Registrar Deadlines

The University does not normally consider a change requested after the *section 1.1.8.4.2: Registrar Deadlines* have passed. In situations where there are extraordinary personal or extraordinary academic circumstances that could not have been foreseen prior to these deadlines, you may formally request a student record change from your Associate Dean or Director. If your Associate Dean or Director approves the request, the change will be processed according to faculty and Enrolment Services student record procedures. You may be assessed a fee for a change requested after Registrar deadlines. For all changes other than grade changes, the faculty will file full documentation that supports the extraordinary circumstances with Enrolment Services.

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

1.1.8.4.5 Fee Assessment Consequences

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

If you want to contest the fee assessment, you must make a written request to Enrolment Services. Enrolment Services re

if the student decides to revise and resubmit. If the student does not contact Graduate and Postdoctoral Studies requesting to revise and submit the thesis within the designated six-week time period or, once approved to revise the thesis, does not submit the revised thesis by the one-year deadline, the thesis will be deemed to have failed and the student will be withdrawn from the University. If the revised thesis is subsequently not passed, the thesis will be considered failed and the student will be withdrawn from the University.

If a thesis has not been passed and the student feels that this judgment is based on bias, error, or serious misrepresentation on the part of the examiner(s), the student may submit a written request for a new e

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

1.1.11 Identification and Personal Information

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

1.1.11.1 Identification (ID) Cards

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

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

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

- New students must be registered for at least one course to obtain an ID card.
- You must allow for at least 24 hours after you have registered for your first course before requesting an ID card.
- If you do not register for consecutive terms, you should retain your ID card to avoid having to replace it when you re-register.
- If your card has expired, there is no charge for a replacement as long as you hand in the ID card.
- If you change programs or faculties, there is no charge as long as you hand in the ID card.
- If your card has been lost, stolen, or damaged, there is a replacement fee; please see the *Student Records* website for an exact fee amount.
- If you need security access to labs or other facilities please contact the Area Access Manager (AAM) of the building in which the room is located. To find out who the AAM is, consult the *Find the AAM* list on the *Security Services website*.

1.1.11.1.1 ID Card Schedule for the Downtown Campus

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

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

1.1.11.1.2 ID Card Schedule for the Macdonald Campus

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

Student Affairs Office, Room 106, Laird Hall
Office hours:
Monday through Friday – 9:00 a.m. to 4:00 p.m.
Friday throughout the summer – 9:00 a.m. to 3:00 p.m.

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

1.1.11.2 Legal Name

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

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

1. Canadian birth certificate or citizenship certificate.
2. Canadian Immigration Record of Landing, (IMM 1000 or IMM 5292 or IMM 5688 and Permanent Residence card.)
3. Canadian Immigration Study or Work Permit.

4. Certificate of Acceptance of Quebec (CAQ.)
5. International passport (**Note**: If you possess Canadian citizenship, a Canadian citizenship card or certificate is required as 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* or applicable force in any Canadian Province.

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.

Should McGill require a copy of one of the documents listed about, both or all sides of the document must be copied and presented.

1.1.11.3 Preferred First Name

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

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

The preferred first name may be used on all unofficial univ

If you need to change important personal information that requires the Uni

Quebec and Canadian Out-of-Province Students	
You are a Quebec resident as defined by one of the other situations outlined by the Government of Quebec	• Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (*Note 2*); or valid Canadian Permanent Resident card (both sides of the card) • Permanent Code Data Form (Notes 1 and 5) • Attestation of Residency in Quebec Form (Note 5) • ***Other supporting documents*** , depending on which situation you checked on the above Attestation of Residency Form
International Students	
You will be studying at McGill for less than six months (i.e., for only one academic semester) as a non-degree student (e.g., Exchange, Special, Visiting)	• You may need a Visitor's Permit or *eTA* issued by Immigration, Refugees, and Citizenship Canada at your port of entry into Canada. To determine if you are required to have a visa, please refer to the *Immigration and Citizenship* website • Photo page of your passport • Permanent Code Data Form (Notes 1 and 5)
You will be in Canada for more than six months (i.e., you are enrolled in a degree, certificate, or diploma program, usually for two or more consecutive academic semesters)	• Certificate of Acceptance of Quebec (CAQ) • Study Permit issued by Immigration Canada (Note 3) • Permanent Code Data Form (Notes 1 and 5)

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

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

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

Note 4: Usually McGill needs your birth certificate to prov

Telephone: 514-398-7878
Website: *www.mcgill.ca/servicepoint/contact-us*

1.1.12.5.1 For the School of Continuing Studies

By Email:

legaldocuments.conted@mcgill.ca

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

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

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

Telephone: 514-398-6200

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

1.1.13 Graduation

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

At the time of graduation from an undergraduate degree, you must be in Satisfactory Standing with a minimum CGPA of 2.00. Some faculties may require a higher CGPA in order to graduate.

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

Minimum Residency Requirement

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

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

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

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

- You must successfully complete a minimum of 21 McGill credits (excluding 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.

1.1.13.1 Apply to Graduate

Most undergraduate students and non-thesis graduate students (master's, certificates, diplomas) must use *Minerva* to apply to graduate (go to *Student Records* > *Apply for Graduation for Your Primary Curriculum*). It is your responsibility to inform McGill of your intention to graduate. You need a minimum residency requirement of 60 credits at McGill to qualify for a McGill undergraduate degree. For more information, see *section 1.1.13: Graduation*. The minimum CGPA required to graduate is 2.00, and you must be in Satisfactory Standing.

The Application for Graduation is available on Minerva when you register for your final year (e.g., U3 or U4), except if you are in the F

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

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

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

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

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

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There are two ways to submit a request:

1. Via *Service Point Checkout eStore* – Follow the instructions found at *www.mcgill.ca/graduation/diplomas* first, then to submit the order go to *spcheckout.mcgill.ca*.
2. In person:
    - Come to *Service Point* with a photocopy of your original diploma on 8.5" x 11" paper in landscape mode, making certain to reduce it so that all seals and signatures are visible, and indicate how many copies you need;
        - Indicate if you require certified translations, and if yes, in what language (i.e., English or French);
    - Pay the CAD$15 per copy fee payable via **debit card only**.

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

1.1.13.4 Aegrotat Standing and Degree at McGill University

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

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

Aegrotat Standing is rarely granted at McGill University. A formal request must be submitted to the Dean of the faculty in which the student is registered

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

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

1.1.14.5 myMcGill

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

Systems accessible through the portal include:

- Athletics
- Email
- FAMIS
- *McGill home page*
- InfoEd
- Library
- Minerva
- myCourses
- myFuture
- myLab
- Visual Schedule Builder

To access myMcGill, click ***Quick Links*** , available at the top of any McGill web page, and then click myMcGill, or go to ***mymcgill.mcgill.ca*** . Sign in with your McGill Username and McGill Password.

1.1.15 Student Health & Insurance

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

1.1.15.1 Health Professions – Immunization Requirement

A compulsory immunization program exists at McGill for students in the health science fields (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/wellness-hub/access-care/vaccines* or by calling the Student Wellness Hub at 514-398-6017.

1.1.15.2 Health Insurance – International Students

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

By Senate regulation, all international students (full-time, part-time, half-time, Additional Session, Thesis Evaluation, Non-Thesis Extension, Special, Exchange, and Visiting) and their accompanying dependants must participate in the University's compulsory International Student Health Insurance Plan (IHI). The University and the Quebec Ministry of Education require a copy of your proof of health insurance on file. **Students covered by private health**

insurance are not exempt from the McGill plan. You must confirm your IHI contract **on Minerva under the International Student Health Insurance Coverage Form** and pick up an International Health Insurance card upon your arrival at McGill University from:

- **Downtown campus**

  Service Point
  3415 McTavish
  Montreal QC H3A 0C8
  Website: *www.mcgill.ca/servicepoint*

- **Macdonald campus**

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

For details on the health insurance plan and information concerning rates, consult the *ISS website*.

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

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

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

International Health Insurance
Telephone: 514-398-4349
Email: *international.health@mcgill.ca*
Website: *www.mcgill.ca/internationalstudents/health*

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

1.1.15.3 Health Insurance – Canadian Citizens and Permanent Residents

Canadians residing in Canada

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

Studentcare/*Alliance pour la santé étudiante au Québec* (ASEQ)
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Note for Graduate and P

- “**Course**”: a course that counts for credit toward the student’s degree program (whether required, complementary, or electi

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

Note: A student in a graduate program who has failed one course while being a Special Student in graduate studies will hav

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

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

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

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

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

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

2.9. The Chair of the academic unit should ensure that procedures are in place to address serious disagreements that may arise, for example, between a student and a supervisor or between a supervisor and

Instructors are strongly advised to write their corrections in red pen and to write comments which help the student to understand the mark assigned.

2. The request for a formal reread must be made by the student in writing to *Graduate and Postdoctoral Studies* and should specify the reasons for the request. It should include a statement indicating that the student has already met with the faculty member responsible for the course to review the mark or indicating why this has not been possible. The reread fee will be charged directly to the student's fee account after the result of the reread is received; this will be reimbursed if there is an upwards change in the letter grade for the course. The reread fee amount and other details can be found on the *Student Accounts website*.
3. a) Administration of the reread is handled by Graduate and Postdoctoral Studies, not by the department. Graduate and Postdoctoral Studies will contact the department to obtain the course syllabus, the work to be reread, a list of potential readers, and details of the marking. **The list of potential readers must be approved by the Department Chair or Graduate Program Director. The Chair or Graduate Program Director must, as well, vouch for the impartiality of these readers.** All communication with the second reader is conducted by Graduate and Postdoctoral Studies.

   b) The second reader is given the course syllabus, the original assignment with marginalia, corrections, summary comments, and mark intact, as well as any notes from the instructor pertinent to the general nature of the course or the assignment and grading schemes, etc.
4. The student's and the instructor's names are blanked out to reduce the possibility of prejudice and to help meet the requirements of the *Charter of Students' Rights* (available at *www.mcgill.ca/students/srr/policies-student-rights-and-responsibilities*) that the review be impartial. The rereader's name will not be made known to the student or instructor at any time; the student's name will not be made known to the rereader at any time.
5. a) The second reader should support his or her assessment with a brief memorandum to Graduate and Postdoctoral Studies. As a result of the reread process, the grade may become **higher or lower or remain unchanged**. The grade submitted by the second reader shall replace the original grade. The reread grade cannot be challenged.

   b) In the case of requests for rereads of group work, all members of the group must sign the request, indicating that they agree to the reread. In the event that members of the group are not in agreement, the written request should indicate which students are requesting the reread and which students do not wish for a reread. In such cases, the outcome of the reread (whether positive or negative) will affect only the students who had previously agreed to the reread. Neither the reread grade nor the decision to opt in or out of the reread can be challenged.
6. The new grade resulting from the review will be communicated to the student in a letter from Graduate and Postdoctoral Studies, with a copy to the academic unit.

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

Approved by Council of FGSR, May 12, 1995.

Revised May 1997, January 2011, July 2014, July 2015.

1.2.6 Guideline on Hours of Work

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

1.2.7 Language Policy

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

If you need to improve your English skills, you should take an intensive course in English as a second language before or at the start of your studies. Information concerning second language course offerings can be found through the School of Continuing Studies at *www.mcgill.ca/continuingstudies/area-of-study/languages* and the *French Language Centre* at *www.mcgill.ca/flc*, and in *Summer Studies* and *Continuing Studies*. There are special language requirements for Faculty of Education students; see *Faculty of Education*.

Note for Continuing Studies: For English language programs, see *Continuing Studies* > *Areas of Study* > *Languages* > *: English Language Programs*.

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

Note for Graduate and Postdoctoral Studies: You should refer to *University Regulations & Resources* > *Graduate* > *Regulations* > *Registration* > *section 1.1.3.5: Cour*

- maternity or parenting
- personal or family health
- professional development (graduate students only)
- required military service (graduate students only)
- employment that precludes progress toward 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 their record; in particular, as it pertains to term and course registration to ensure that the accurate information is reflected.

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

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

NOTES:

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

Leave vs. Residency Requirements

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

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

Applying to Graduate Following a Leave

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

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

Funding Council Leave Policies for Graduate and Postdoctoral Fellowships

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

Procedure for Requesting a Leave

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

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

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

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

NOTES:

- A medical certificate must contain at least the following items:
  - the student or postdoc's name, as well as complete contact information for the physician;
  - a clear statement by the physician justifying the student or postdoc's inability to perform his/her academic duties, with start and end dates; and
  - 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.

Ph.D. Comprehensives P

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

Feedback

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

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

Failures

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

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

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

1.2.10 Admission of Former Students

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

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

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

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

Senate – March 23, 2016.

1.2.11 Time Limitation

Candidates for master's degrees must complete the degree **within three years of initial registration**. If the degree is pursued strictly on a less-than-full-time basis, it must be completed within five years of initial registration, after which the student will be withdrawn from the University.

Candidates for doctoral degrees must complete the degree by the end of PhD7. Please note that students admitted after a master’s degree are normally considered to be PhD2 and not PhD1 (direct entry). Students should contact their *Graduate Program Coordinator/Administrator* to confirm the number of years in which they must complete the degree.

The object of these regulations is to encourage candidates to complete their theses and qualify for their degree without undue delay.

Students who do not complete their degree requirements within the time limits stated above will be withdrawn from the University and will lose their student status and access to McGill facilities and support. International students on study permits will also be required to leave Canada.

Students can apply for readmission by completing and submitting the *Request for Readmission webform* only when they are ready to submit their thesis and will be charged fees for the term of readmission and any future terms of registration up to and including their term of graduation.

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

Council of FGSR, February 2, 1996; Revised January 18, 2016.

Senate, April 20, 2016.

1.2.18 0 1 University Student Assessment Policy

1.3 Graduate Studies at a Glance

1.3.1 Graduate and Postdoctoral Degrees Offered by Faculty

McGill University offers graduate and postdoctoral programs in the following units (org

Faculty of Dentistry	**Degrees Available**
section 4.12.1: Dentistry	M.Sc.

Desautels Faculty of Management	**Degrees Available**
section 10.12: Desautels Faculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.B.A. & M.D.,C.M., M.B.A./Japan, E.M.B.A., M.M., Ph.D., Graduate Certificate

Faculty of Education	**Degrees Available**
section 5.12.1: Educational and Counselling Psychology	M.A., M.Ed., Ph.D., Graduate Diploma
section 5.12.2: Integrated Studies in Education	M.A., Ph.D., Graduate Certificate
section 5.12.3: Kinesiology and Physical Education	M.A., M.Sc., Ph.D.

Faculty of Engineering	**Degrees Available**
section 6.12.1:	M.Arch., Ph.D.

Faculty of Medicine	**Degrees Available**
section 11.12.21: Psychiatry	M.Sc.
section 11.12.22: Surgery, Experimental	M.Sc., Ph.D., Graduate Certificate, Graduate Diploma

Ingram School of Nursing	**Degrees Available**
section 13.12.1: Nursing	M.Sc.A., Ph.D., Graduate Certificate, Graduate Diploma

School of Physical and Occupational Therapy	**Degrees Available**
section 14.12.1.2: About Physical and Occupational Therapy	M.Sc., M.Sc.A., Ph.D., Graduate Certificate

Schulich School of Music	**Degrees Available**
section 12.12.1: Schulich School of Music	M.A., M.Mus., D.Mus., Ph.D., Graduate Artist Diploma, Graduate Certificate, Graduate Diploma

Master of Arts (M.A.)		
		Course Work, Course Work Math & Science Education, Gender and Women's Studies, Jewish Education, Project Math & Science 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
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, History of Medicine (Non-Thesis)
History of Medicine	Non-Thesis	N/A
Islamic Studies	Thesis	Gender and Women's Studies
Italian	Thesis, Non-Thesis	N/A
Jewish Studies	Thesis, Non-Thesis	N/A
Kinesiology and Physical Education	Thesis, Non-Thesis	N/A
Languages, Literatures and Cultures	Thesis (*Ad Hoc*)	Digital Humanities
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	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)
School/Applied Child Psychology	Non-Thesis	N/A
Sociology	Thesis, Non-Thesis	Development Studies, Gender and Women's Studies, Medical Sociology (Thesis) Development Studies, Gender and Women's Studies, Medical Sociology, Population Dynamics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English Language Arts, Mathematics, Science and Technology, Social Sciences

Master of Public Policy (M.P.P.)		
Public Policy	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 giv

Master of Science (M.Sc.)

Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	N/A
Pathology	Thesis	N/A
Pharmacology	Thesis	Environmental Health Sciences
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics, Chemical Biology
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Global Health, Population Dynamics
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	Sustainable Agriculture
Bioresource Engineering	Non-Thesis	Environment, Environmental Engineering, Integrated Food and Bioprocessing
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	Advanced Clinical Practice, Direct Entry Nursing, Global Health, Global Health Direct Entry, Mental Health Nurse Practitioner, Neonatology Nurse Practitioner, Nursing Services Administration, Pediatric Nurse Practitioner, Primary Care Nurse Practitioner
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
Social Work	Non-Thesis	Couple and Family Therapy

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	Gender and Women's Studies (Thesis) International Partner Program, Gender and Women's Studies (Non-Thesis)
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 residency and a three-month internship with a member of a recognized planning association.

Doctor of Philosophy (Ph.D.)		
Biological and Biomedical Engineering	N/A	Faculty of Engineering, Faculty of Medicine
Bioresource Engineering	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	N/A	Faculty of Science
Civil Engineering	N/A	Faculty of Engineering
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
	Gender and Women's Studies, Language Acquisition,	Faculty of Education

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

Graduate Diplomas	
Clinical Research	Neonatal Nurse Practitioner
Medical Radiation Physics	Pediatric Nurse Practitioner
Mental Health Nurse Practitioner	Primary Care Nurse Practitioner
	Re

limited to, transcripts, diplomas, letters of reference, and test scores, become the property of McGill University and will not be returned to the applicant or issuing institution under any circumstance.

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

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

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

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

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

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

Personal Statement: an essay in which the applicant describes their reasons for applying to graduate studies and indicating qualifications, qualities, or circumstances the applicant feels to be significant; usually provides information about educational and professional goals and discusses the applicant's interest in the desired field of study.

Portfolio: a collection of the applicant's best work to date, selected by them, and intended to show their mastery of a given style or variety of styles; different samples of their artistic work.

Recording: an unedited recording (audio or video) of the applicant performing at least two contrasting pieces; minimum 20 minutes.

Research Proposal: a detailed description of the proposed program of research, including proposed Thesis Supervisor(s); describes the research background, significance, methodology, and references; may include expected results; may include a detailed curriculum vitae.

TOEFL: Test of English as a Foreign Language (see *section 1.4.5: Competency in English* below)

Writing Sample: a recent sample of the applicant's written work, on any topic (not necessarily within the desired field of graduate study) and not necessarily previously submitted for evaluation or publication.

Written Work: a sample of the applicant's written work, drawn from essays, papers or other work previously submitted for academic evaluation or publication, and falling within the desired field of graduate study.

1.4.4 Admission Tests

Graduate Record Examination (GRE)

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

Graduate Management Admissions Test (GMAT)

Applicants to graduate programs in Management must ensure that official results are released to McGill by the Graduate Management Admission Council (GMAC). The test is a standardized assessment offered by the GMAC to help business schools assess candidates for admission. For further information, see *www.mba.com/exams/gmat*.

1.4.5 Competency in English

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

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

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

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

1. *TOEFL* (Test of English as a Foreign Language): minimum acceptable scores are:

Competency in English	
iBT (Internet-based test)	**PBT (paper-based test)**
86 overall (no less than 20 in each of the four component scores)	567
*Note: 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. *Pearson Edexcel* (formerly Edexcel London)

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 academic units may set higher requirements.

Revised – July 2008

1.4.6 Admission to a Qualifying Program

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

Qualifying students are registered in graduate studies, **but not as candidates for a degree**. Only one Qualifying year (i.e., two full-time terms) is permitted.

In all cases, after the completion of a Qualifying year or term, an applicant interested in commencing a degree program must apply for admission by the application deadlines. Successful completion of the work in the Qualifying program (B- in all courses) does not automatically entitle the student to proceed toward a degree. Qualifying year students must apply for admission to the program for which they seek qualification.

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

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

1.4.7 Admission to a Second Degree Program

A candidate with a given higher degree may apply for admission to a second degree program at the same level but **in a different subject**.

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

A small number of citizens from countries whose governments have entered into agreements on tuition fees with Quebec may be exempted from the supplemental tuition fees normally required of international students. Availability varies for such exemptions from year to year; refer to

1.7.1 Service Point

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

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

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

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

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

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

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

1.7.1.1 Location

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

1.7.2 Student Rights and Responsibilities

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

Further details regarding your rights and responsibilities are also available at *www.mcgill.ca/secretariat/policies-and-regulations*.

1.7.2.1 Support for Students: Office of the Dean of Students

The Dean and the Associate Dean of Students coordinate and promote initiatives concerned with important aspects of the student experience, such as advising, academic integrity, student discipline, student recognition programs, and outreach to families, the McGill community, and the broader local community.

William and Mary Brown Student Services Building
3600 McTavish Street, Suite 2100
Montreal QC H3A 0G3

For information, contact (Dean/Associate Dean):

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

1.7.2.2 Office of the Senior Director, Services for Students

William and Mary Brown Student Services Building

3600 McTavish Street, Suite 4100
Montreal QC H3A 0G3

For information, contact:

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

The Senior Director, Services for Students (SDSS), coordinates all student services at McGill to help promote student success and well-being. The SDSS is available to provide assistance and/or information on almost all aspects of non-academic student life. Concerns of an academic nature are directed to the proper individual, office, or department.

Student Ser

1.7.3.3 First Peoples' House

Promotes and supports Indigenous student success and well-being in a culturally welcoming environment.

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

1.7.3.4 International Student Services (ISS)

Offers support to international students; orientation and transition programs; and immigration and health insurance information.

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

1.7.3.8 Office of Sustainability

Supports McGill's goal to become an institutional model of sustainability for society. Whether you have a project in mind, or just a lot of questions, there are many ways for you to get involved with sustainability at McGill. Stay up to date via our *Facebook* and *Twitter* pages, and by *signing up* to receive our monthly e-newsletter.

Sherbrooke 1010 Building, Suite 1200
Telephone: 514-398-2268
Email: *sustainability@mcgill.ca*
Website: *www.mcgill.ca/sustainability*

Scholarships and Student Aid Office

- *section 1.7.4.2: International Student Services (ISS)*
- *section 1.7.4.3: Office for Students with Disabilities (OSD)*
- *section 1.7.4.5: Student Wellness Hub*
- *section 1.7.4.6: Student Financial Aid*
- *section 1.7.4.7: Other Servicesellness Hub*

1.7.5.1.2 Shared-Facilities Housing

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

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

1.7.5.2 University Residences – Macdonald Campus

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

Residence life is an integral part of Macdonald Campus activities.

- **Laird Hall**, with a capacity of 250 students, is a co-ed residence that provides accommodation for undergraduate, graduate, and Farm Management Technology students. Residents enjoy comfortable rooms, modern kitchens, cozy lounge facilities, and other amenities that help make their residence life a complete and meaningful part of their university experience. Included in the room rent is high-speed Internet service.
- The **EcoResidence** accommodates 100 students. This residence will appeal to students who enjoy independent living in self-contained fully furnished apartments of two or six single-bedroom units. Units are split-lev

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

1.7.5.2.4 Student Parking – Macdonald Campus

Parking permits are available from Macdonald Campus Security, Room 101, Laird Hall. A parking decal is $200 for one year and $120 for one semester and can be picked up Monday to Friday from 8:15 a.m. to 3:45 p.m.

Daily passes for students are $6 and can be purchased at the Upper Gravel Lot and the Horticulture parking lot. Half-day passes are $4 and can only be purchased at the meter (exact change is required). All students obtaining a daily pass must park in the Horticulture lot, east of the Highway 20 overpass. If you are not sure of the location, you can pick up a map from the Campus Security office in Laird Hall. For more information, see *www.mcgill.ca/transport/parking/mac*.

1.7.6 Athletics & Recreation

1.7.6.1 Downtown Campus Athletics & Recreation

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

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

McGill students can participate in instructional, recreational, intramural, and intercollegiate activities, as well as sports clubs. There are nominal fees for instructional courses, intramurals, sports equipment rentals, and membership to the Fitness Centre. Sporting equipment (x-country skis, snowshoes, racquets, balls, etc.) is available for loan or rent.

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

1.7.6.2 Macdonald Campus Athletics & Recreation

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

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

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

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

Stewart Athletic Complex
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The Office of the Ombudsperson for students offers confidential, informal, independent, and impartial dispute resolution services to all members of the student community by pro

The mandate of the Ombudsperson for Students at McGill University is to intervene at any point and attempt to resolv
to more formal processes. To consult the mandate, visit the website of the Office of the Omb

Office of the Ombudsperson
3610 McTavish
Main Floor, Suite 14
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Student associations and University units at McGill host over activities, clubs, and services that students may join. These include:

- international clubs;
- leadership groups;
- peer support programs;
- student government societies;
- religious groups;
- political clubs;
- communications and media groups such as the CKUT radio station, the McGill Tribune, and the McGill Daily;
- scien1 08ebs;

680 Sherbrooke Street West
Telephone: 514-398-5025
Online Order Pickup available at this location

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

1.7.9.2 Macdonald Campus

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

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

1.7.10 Computer Store

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

1.7.11 Day Care

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

The Centre is located at:

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

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

The Centre is located at:

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

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

1.8.3.2 International Exemption Fees

Exemption from international tuition fees may be claimed by students in certain categories. Such students, if eligible, are then assessed at the Quebec tuition rate (certain categories may be assessed at the Canadian tuition rate). These categories, and the required supporting documentation for each of them, may be viewed at *www.mcgill.ca/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 >*

Registration Charge –

as most awards require full-time registration. For directions on requesting your refund online in Minerva, see *www.mcgill.ca/student-accounts/your-account/requesting-refund*.

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

1.8.9 Other Policies Related to Fees

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

1.8.9.1 Overdue Accounts

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

Students' accounts are considered delinquent if they are not paid in full within 60 days after the bill is issued. McGill places a financial hold on these accounts, preventing students from obtaining official academic transcripts and from accessing Minerva for any registration functions. In the event that a student's account has a hold preventing registration or the release of transcripts, the Univ

1.8.9.3 Deferred Admission

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

1.8.9.4 Fees for Students in Two Programs

Students in two programs are normally billed additional fees for their second program. Depending on the level of the two programs (e.g., one at the undergraduate level 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-tuition-and-fees-information/exchange-senior-citizens-part-time-and-double-program* for further details.

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

1.8.9.5 Students Taking Courses Extra to Their Program

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

Please refer to the "Extra Courses" policy found at *www.mcgill.ca/student-accounts/tuition-fees/general-tuition-and-fees-information/grad-studies-information*.

1.8.9.6 Senior Citizens

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

1.8.9.7 Quebec Inter-University Transfer Agreements

If you are taking courses as part of the Quebec Inter-University Transfer (IUT) agreement, you are required to pay the fees at your home university; see *section 1.1.2.13: Quebec Inter-University Transfer Agreement*. The agreement covers only the transfer of academic credits.

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

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

1.8.10 Sponsorships/Funding/Fee Deferrals

1.8.10.1 Students with Sponsors

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

When a third party agrees to pay fees on behalf of a student, payment is recorded on the fee account, which reduces the balance the student must pay.

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

1.8.10.4 Tuition and Fees – Payment Deferral

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

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

The Minerva application for deferral of tuition fees form is available in mid-July for the Fall term (mid-December for the Winter and early April for the Summer). Students who apply up to the fee deadline can be assured that the deferral will be in effect prior to interest being charged on their account.

Note: Students who apply late may not request cancellation of interest.

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

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

1.8.11 Tax Slips/Receipts

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

1.8.12 Yearly Fees and Charges

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

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

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

Students who have completed the residency requirements for their program but have not yet completed the program requirements are required to be registered in a supplementary term until graduation. Where a student is in a thesis program, this is called "Additional Session" and fees will be charged each term that they are registered, including the Summer. Students required to register in a Thesis Evaluation term upon initial submission of the thesis will be charged only society and administrative fees in each term that they must be registered. Where a student is in a non-thesis program, this is called "Non-Thesis Extension" and fees will be charged in each term that they are registered. Please refer to *Program Requirements* > *section 1.1.7.1: Master's Degrees* and *section 1.1.7.2: Doctoral Degrees*, found in the *Graduate* section of each faculty and school.

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

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

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

1.9 Information Technology (IT) Services

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

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

Course Number	Course Title	Credits	Notes
CESL 500	ESL: Research Essay and Rhetoric	3	Placement test required (see *www.mcgill.ca/mwc* for details)
CCOM 206	Communication in Engineering	3	Restricted to and required for students pursuing a B.Sc. in Engineering
CCOM 314	Communicating Science	3	
CCOM 315	Writing the Internet	3	

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

Graduate Courses:

Course Number	Course Title	Credits
CEAP 642	Cornerstones of Academic Writing	1
CEAP 652	Fundamentals of Academic Presentations	1
CEAP 661	Literature Review 1: Summary and Critique	1
CEAP 665	Literature Review 2: Establishing Scholarly Niches	1
CEAP 671	Selected Topics in Communication 1	1
CEAP 672	Selected Topics in Communication 2	1

Prof. Sarah Leu

include fossils from the ancient sea floor of eastern Quebec, the oldest land plants, a vast range of minerals, molluscs from around the world, Egyptian and classical antiquities, and artifacts from Central Africa. The Museum also houses research laboratories and classrooms.

The Museum welcomes McGill students and staff to visit its permanent exhibit, which presents the history of life through the ages illustrated by material from Quebec and neighbouring regions, as well as displays that feature the mineral and mollusc collections. The Museum also features a world cultures gallery dev

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 mer

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 gov

Members
Pierre Matuszweski; B.A.(Laval), M.B.A.(McG.)
Samuel Minzberg; LL.B.(McG.)
Derek Nystrom; B.A.(H.)(Wisc.), M.A., Ph.D.(Virg.)
Maarika Paul; B.Com., Gr. Dip.(McG.), F.C.P.A., F.C.A., C.B.V.
Samira Sakhia; B.Com., M.B.A.(McG.)
Cynthia Price Verreault; B.Com.(McG.)
Martine Turcotte; B.C.L./LL.B.(McG.), M.B.A.(London Business School)
Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

1.11.5.2.2 Student Representatives

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

1.11.6 Governance: Members of Senate

1.11.6.1 Ex-officio

Ex-officio
The Chancellor
The Chair of the Board of Governors
The Principal and Vice-Chancellor
The Provost, Deputy Provost, and the vice-principals
The deans of faculties
The Dean of Continuing Studies
The Dean of Graduate and Postdoctoral Studies
The Dean of Students
The Dean/Director of Libraries
The University Registrar and Executive Director of Enrolment Services
The Director of Teaching and Learning Services

1.11.6.2 Elected Members

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

1.11.7 Administration

Administration	
Michael A. Meighen; B.A.(McG.), LL.L.(Laval)	**Chancellor**

Administration	
Suzanne Fortier; B.Sc., Ph.D.(McG.)	**Principal and Vice-Chancellor**
Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)	**Provost and Vice-Principal (Academic)**
Fabrice Labeau; M.S., Ph. D. (Louvain)	**Deputy Provost (Student Life & Learning)**
Gillian Nycum; B.A.(Dal.), B.C./LL.B. (McG.)	**University Registrar and Executive Director of Enrolment Services**
Martine Gauthier; M.A.(Flor. St.)	**Executive Director of Services for Students**
Ghyslaine McClure; B.Eng.(Montr.), S.M.(MIT), Ph.D.(Montr.)	**Associate Provost (Academic Priorities & Resource Allocation)**
Angela Campbell; B.A. B.C.L.(McG.), LL.M.(Harv.)	**Associate Provost (Equity & Academic Policies)**
Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)	**Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural & Environmental Sciences)**
Ghilaine Roquet; B.A.(UQAM), M.Sc.A.(Montr.)	**Chief Information Officer**
Edyta Rogowska; B.A.(Tor.), M.A.(McG.)	**Secretary-General**
Yves Beauchamp; B.Eng., M.Eng.(UQTR), Ph.D.(WVU)	**Vice-Principal (Administration & Finance)**
Diana Dutton; B.F.A.(C'dia), Gr. Dip., M.B.A.(McG.)	**Associate Vice-Principal (Human Resources)**
Robert Couvrette; B.Sc.(École Poly., Montr. & HEC), M.P.M.(UQAM)	**Associate Vice-Principal (Facilities Management and Ancillary Services)**
Louis Arsenault; B.A.(UQAM), M.A.(Paris VII)	**Vice-Principal (Communications & External 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 Vice-Dean (Health Affairs)**
Martha Crago; B.A.(McG.)	**Vice-Principal (Research & Innovation)**
Sylvain Coulombe; B.Sc., M.Sc.A(Sherbrooke), Ph.D.(McG.)	**Associate Vice-Principal (Research & Innovation) (Innovation & Partnerships)**
Anne McKinney; B.Sc., Ph.D.(Ulster)	**Associate Vice-Principal (Research & Innovation) (Health Sciences)**
Nancy Ross; Ph.D.(McM.)	**Associate Vice-Principal (Research & Innovation) (Social Sciences)**
Marc Weinstein; B.A., B.C.L., LL.B.(McG.)	**Vice-Principal (University Advancement)**

1.11.7.1 Deans, Directors of Schools and Libraries

1.11.7.1.1 Deans

Deans	
Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)	**Agricultural & Environmental Sciences**
Antonia Maioni; B.A.(Laval), M.A.(Car.), Ph.D.(N'western)	**Arts**
Carola Weil; B.A.(Bryn Mawr), M.A., M.P.M., Ph.D.(Md.)	**Continuing Studies**
Elham Emami; D.D.S.(Tehran), M.Sc., Ph.D.(Montr.)	**Dentistry**
Dilson Rassier; B.Sc.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)	**Education**
James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.	**Engineering**
Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)	**Graduate & Postdoctoral Studies**
Robert Leckey; B.A.(Hons.)(Qu.), B.C.L./LL.B.(McG.), S.J.D.(Tor.)	**Law**
Colleen Cook; B.A., M.L.S., M.A., Ph.D.(Texas)	**Libraries**
Isabelle Bajeux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI & Paris IX), Doctorate(Paris IX)	**Management**
David Eidelman; M.D.,C.M.(McG.), FRCPC, FACP	**Medicine**
Brenda Ravenscroft; B.Mus.(Cape Town), M.Mus.(King's, Lond.), Ph.D.(Br. Col.)	**Music**
R. Bruce Lennox; B.Sc., M.Sc., Ph.D.(Tor.)	**Science**
Chris Buddle; B.Sc.(Guelph), Ph.D.(Alta.)	**Dean of Students**

1.11.7.1.2 Directors of Schools

Directors of Schools	
Martin Bressani; B.Arch.(McG.), M.Sc.(MIT), Ph.D.(Paris 1)	**Architecture**
Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)	**Communication Sciences & Disorders**
Bettina Kemme; M.C.S.(Friedrich-Alexander Univ.), Ph.D.(ETH Zürich)	**Computer Science**
Linda Wykes; B.Sc., M.Sc., Ph.D.(Tor.)	**Human Nutrition**
Sylvie de Blois; B.Sc.(McG.), M.Sc., Ph.D.(Montr.)	**Environment**
Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)	**Information Studies**

2.2.2 Location

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

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

2.2.3 Graduate and Postdoctoral Studies' Mission

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

2.3 Important Dates

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

2.4 Graduate Studies at a Glance

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

2.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

2.6 Graduate Admissions and Application Procedures

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

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

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

2.7 Fellowships, Awards, and Assistantships

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

2.8 Postdoctoral Research

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

2.8.1 Postdocs

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

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

2.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to 45Tlfilesponsibleities toaa mepervisiooof the Unsearch und wiaa membnralor otcentere

the courses as Special Students. These Postdocs may only be enrolled as part-time students in non-degree granting programs.

2.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

2.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. For a maternity or parental leave, the eligibility period of a maximum of 52 consecutive weeks is determined based on when the child is born; if the leave is interrupted for one or two terms, the eligibility period cannot be e

2.9 Graduate Studies Guidelines and Policies

2.12.1 Agricultural Economics

2.12.1.1 Location

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

2.12.1.2 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.

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	March 15	May 31	May 31
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.12.1.4 Agricultural Economics Faculty

Program Director

P.J. Thomassin

Associate Professors

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

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

Assistant Professor

A.P. Harou; B.S.(Sus.), M.S.(Calif., Davis), Ph.D.(Cornell)

Associate Member

C. Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.)

2.12.2 Animal Science

2.12.2.1 Location

Department of Animal Science
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: *gradstudies.macdonald@mcgill.ca*

- Ruminant and Non-ruminant Nutrition and Metabolism

as they relate, not only to livestock production, but also leading into the fields of human nutrition and medicine via animal models for human disease, infertility, and obesity. Official options in Biotechnology are also available.

Departmental researchers have e

in graduate studies, **but not as candidates for a degree**. Only one Qualifying year is permitted. **Successful completion of a Qualifying program does not guarantee admission to a degree program.**

Financial Aid

Financial aid is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student's supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds.

2.12.2.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* for

Associate Professors

Sarah Kimmins; B.Sc.(Dal.), M.Sc.(Nova Scotia Ag.), Ph.D.(Dal.) (*CRC Chair, Tier 2*)

Humberto G. Monardes; Ing.Agr.(Concepcion, Chile), M.Sc., Ph.D.(McG.)

Complementary Courses (30 credits)

15-30 credits from the following:

AEMA 610	(3)	Statistical Methods 2	
ANSC 504	(3)	Population Genetics	
ANSC 530	(3)	Experimental Techniques in Nutrition	
ANSC 551	(3)	Carbohydrate and Lipid Metabolism	
ANSC 552	(3)	Protein Metabolism and Nutrition	
ANSC 560	(3)	Biology of Lactation	
ANSC 565	(3)	Applied Information Systems	
ANSC 600	(3)	Advanced Eukaryotic Cells and Viruses	
ANSC 604	(3)	Advanced Animal Biotechnology	
ANSC 605	(3)	Estimation: Genetic Parameters	
ANSC 606	(3)	Selection Index and Animal Improvement	
ANSC 622	(3)	Experimental Techniques in Animal Science	ANSC 635
ANSC 635	(3)	Vitamins and Minerals in Nutrition	
ANSC 636	(3)	Analysis - Animal Breeding Research Data	
ANSC 691	(3)	Special Topic: Animal Sciences	
ANSC 692	(3)	Topic in Animal Sciences 1	

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

2.12.2.7 Master of Science, Applied (M.Sc.A.) Animal Science (Non-Thesis): Sustainable Agriculture (45 credits)

** NEW PROGRAM **

Climate change and rising human population have increased the need for sustainable agricultural practices. The Sustainable Agriculture option is taken with a M.Sc. Applied (Non-Thesis) program, and designed for students who wish to supplement their basic degree with graduate studies in animal science, with a specific focus on sustainability in agriculture. Students will be exposed to different approachesis the sgp41 05290 1 317.7 329v basic deMtainable agrisrmatioprirougm(e

AEMA 610	(3)	Statistical Methods 2
AEMA 611	(3)	Experimental Designs 1
AEMA 614	(3)	Temporal and Spatial Statistics 1

9-15 credits from the following list:

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 604	(3)	Advanced Animal Biotechnology
ANSC 611D1	(1.5)	Advanced Reproductive Biology
ANSC 611D2	(1.5)	Advanced Reproductive Biology
ANSC 622	(3)	Experimental Techniques in Animal Science
ANSC 635	(3)	Vitamins and Minerals in Nutrition
ANSC 637	(3)	Livestock Breeding Systems
FDSC 545	(3)	Advances in Food Microbiology
PLNT 662	(3)	Advances in Plant Biotechnology

0-6 credits of sufficient 500-, or 600-level courses (with Adviser's approval) to bring the total credits to 45.

2.12.2.8 Doctor of Philosophy (Ph.D.) Animal Science

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

Thesis

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

Required Courses

ANSC 701	(0)	Doctoral Comprehensive Examination

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

2.12.2.9 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)

Tw

section 2.12.3.6: 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 ho

2.12.3.3 Bioresource Engineering Admission Requirements and Application Procedures

2.12.3.3.1 Admission Requirements

Candidates for M.Sc. and Ph.D. degrees should indicate in some detail their fields of special interest when applying for admission. An equivalent cumulative grade point average (CGPA) of 3.0/4.0 (second class–upper division) or a grade point average (GPA) of 3.2/4.0 during the last two years of full-time university

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.

2.12.3.6 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.

2.12.3.7 Master of Science (M.Sc.) Bioresource Engineering (Non-Thesis): Integrated Water Resources Management (45 credits)

Research Project (6 credits)

BREE 631	(6)	Integrated Water Resources Management Project

Required Courses (27 credits)

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

Elective Courses (12 credits)

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

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

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

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

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

Research Project (12 credits)

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

Required Courses (2 credits)

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

Complementary Courses (31 credits)

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

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

2.12.3.9 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environment (45 credits)

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc. Applied program. Applied pr 0 0 19 1817.547 60.406 Tm(Applied pr 0)

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.

2.12.3.10 Master of Science, Applied (M.Sc.A.) Bioresource Engineering (Non-Thesis): Environmental Engineering (45 credits)

This inter-departmental graduate program leads to a master's degree in Environmental Engineering. The objective of the program is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. This non-thesis degree falls within the M.Eng. and M.Sc. programs which are offered in the Departments of Bioresource, Chemical, Civil, and Mining, Metals, and Materials Engineering.

Research Project (6 credits)

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)

W

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)	Bioprocesses for Wastewater Resource Recovery
CIVE 660	(4)	Chemical and Physical Treatment of Waters

Air Pollution Engineering Course

3 credits from the following:

CHEE 592	(3)	Industrial Air Pollution Control
MECH 534	(3)	Air Pollution Engineering

or an approved 500-, 600-, or 700-level alternative course.

Environmental Impact Course

3 credits from the following:

GEOG 501	(3)	Modelling Environmental Systems
GEOG 551	(3)	Environmental Decisions

or an approved 500-, 600-, or 700-level alternative course.

Environmental Policy Course

3 credits from the following:

URBP 506	(3)	Environmental Policy and Planning

or an approved 500-, 600-, or 700-level alternative course.

Further complementary courses (balance of coursework to meet the 45-credit program requirement):

Remaining Engineering or Non-Engineering courses from an approved list of courses, at the 500, 600, or 700 level, from the Faculty of Engineering, Faculty of Agricultural and Environmental Sciences, Faculty of Law, Faculty of Religious Studies, Desautels Faculty of Management, and Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, Sociology, and the McGill School of Environment.

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

Required Courses (6 credits)

BREE 600	(1)	Project/Internship Proposal
BREE 651	(1)	Departmental Seminar M.Sc. 1

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, org

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

2.12.4 Biotechnology

2.12.4.1 Location

Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/biotechgradprog*

2.12.4.2 About Biotechnology

The non-thesis M.Sc.(Applied) degree in Biotechnology offers a course-based curriculum with practical training in laboratory courses and internships offered through the Institute of Parasitology.

2.12.4.3.2.1 Additional Requirements

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

- An *English Proficiency test* is required for most international applicants.
- The GRE (optional).
- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Biotechnology website at *www.mcgill.ca/biotechgradprog/admissions* for full details of the admission process.

2.12.4.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	March 31	March 31	March 31
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

International applicants are advised to apply well in advance of these dates because immigration procedures may be lengthy.

2.12.4.4 Biotechnology Faculty

Biotechnology programs are offered through the Institute of Parasitology. For a complete faculty listing, please refer to *section 2.12.8.4: Parasitology Faculty*.

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

Research Project (16 credits)

BTEC 622	(2)	Biotechnology Research Project 1
BTEC 623	(6)	Biotechnology Research Project 2
BTEC 624	(6)	Biotechnology Research Project 3
BTEC 625	(2)	Biotechnology Research Project 4

Required Courses (20 credits)

BIOT 505	(3)	Selected Topics in Biotechnology
BTEC 501	(3)	Bioinformatics
BTEC 619	(4)	Biotechnology Laboratory 2
BTEC 620	(4)	Biotechnology Laboratory 1
BTEC 621	(3)	Biotechnology Management
HGEN 660	(3)	Genetics and Bioethics

Complementary Courses (9 credits)

9 credits at the 500 level or higher, selected within the Faculties of Agricultural and Environmental Sciences, Medicine, Science, or Management in consultation with the academic adviser of the program in line with the interests of the student.

2.12.4.6 Graduate Certificate (Gr. Cert.) Biotechnology (16 credits)

** This program is currently not offered. **

Required Courses (10 credits)

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

Complementary Courses (6 credits)

Two courses chosen from the following:

General Topics

ANSC 622	(3)	Experimental Techniques in Animal Science
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

2.12.5 Food Science and Agricultural Chemistry

2.12.5.1 Location

Department of Food Science and Agricultural Chemistry
Macdonald-Stewart Building, Room MS1-033
Macdonald Campus of McGill University
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/foodscience*

2.12.5.2 About Food Science and Agricultural Chemistry

The Department of Food Science and Agricultural Chemistry offers M.Sc. (thesis and non-thesis) and Ph.D. programs. These programs provide training in evolving interdisciplinary areas of:

- food quality;
- food safety/food microbiology;
- food chemistry;
- food biotechnology;
- functional ingredients;
- applied infrared spectroscopy;
- food processing;
- thermal generation of aromas and toxicants;
- marine biochemistry;
- food chemical toxicants.

The Department has key infrastructure with all major equipment necessary for conducting research in all these areas. Our graduate program provides strong mentoring/advisory support while maintaining high flexibility for individual research projects.

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**

Professors

Hosahalli S. Ramaswamy; B.Sc.(B'lore), M.Sc., Ph.D.(Br. Col.)

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

Varoujan A. Yaylayan; B.Sc.(Beirut), M.Sc., Ph.D.(Alta.)

Associate Professors

Saji George; B.Sc., M.Sc.(Mahatma Gandhi, Kerala), Ph.D.(NUS)

Ashraf A. Ismail; B.Sc., Ph.D.(McG.)

Salwa Karboune; B.Sc., M.Sc.(Hassan II, Rabat), D.E.A., Ph.D.(Aix-Marseille)

Assistant Professor

Stephane Bayen; B.Sc.(ENSCM), M.Sc.(NUS), M.Eng.(ENSCM), Ph.D.(NUS)

Jennifer Ronholm; B.Sc.(Wat.), Ph.D.(Ott.) (*joint appt. with Animal Science*)

Yixiang Wang; B.Sc., Ph.D.(Wuhan)

Adjunct Professors

Luis Garcia; M.Sc.(Guelph)

Jocelyn Pare; B.Sc.(McG.), Ph.D.(Car.)

Professors Post-Retirement

Selim Kermasha; B.Sc.(Baghdad), D.Sc.(Nancy)

2.12.5.5 Master of Science (M.Sc.) Food Science and Agricultural Chemistry (Thesis) (45 credits)

For candidates entering the M.Sc. program without restrictions, i.e., those not requiring a qualifying term/year, the M.Sc. degree consists of 45 graduate credits. These credits are obtained through a combination of graduate courses and a research thesis.

The residence time for a M.Sc. de

FDSC 697	(6)	M.Sc. Project Part 1
FDSC 698	(6)	M.Sc. Project Part 2

Complementary Courses (18 credits)

3 credits chosen from the following:

FDSC 695	(3)	M.Sc. Graduate Seminar 1
FDSC 696	(3)	M.Sc. Graduate Seminar 2

15 credits chosen from the following:

AGRI 510	(3)	Professional Practice
FDSC 515	(3)	Enzymology
FDSC 516	(3)	Flavour Chemistry
FDSC 519	(3)	Advanced Food Processing
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 535	(3)	Food Biotechnology
FDSC 536	(3)	Food Traceability
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 538	(3)	Food Science in Perspective
FDSC 540	(3)	Sensory Evaluation of Foods
FDSC 545	(3)	Advances in Food Microbiology
FDSC 634	(3)	Food Toxins & Toxicants
FDSC 651	(3)	Principles of Food Analysis 2
FDSC 652	(3)	Separation Techniques in Food Analysis 2

Elective Courses (15 credits)

At the 500 level or higher, and chosen in consultation with the academic adviser.

2.12.5.7 Master of Science (M.Sc.) Food Science & Agricultural Chemistry: Food Safety (Non-Thesis) (45 credits)

The program is intended to train graduate students as specialists in food safety with the expectation that graduates will be well prepared academically to take on the challenging food safety events and issues that emerge both in Canada and globally. The program will cover food safety through the entire food supply chain from food production through processing/manuf

3 credits chosen from the following:

2.12.6.2 About Human Nutrition

In the School of Human Nutrition, cutting-edge nutrition research is conducted by 12.5 tenure-track professors and six faculty lecturers in all areas recommended by North American Nutrition Societies. These areas include clinical, community, and international nutrition as well as molecular and cellular nutrition. Research at the School emphasizes the following domains:

- nutritional biochemistry and metabolism;
- fetal, perinatal, and childhood origins of health and disease;
- clinical and epidemiological studies optimizing health in at-risk populations including Indigenous communities, mothers and children, and the elderly;
- development of novel nutritional and/or nutraceutical approaches to maintain health, treat patients undergoing surgery, and promote recovery from disease.

Research is conducted in our on-site research labs, the *Centre for Indigenous Peoples' Nutrition and Environment* (CINE), the *McGill Institute for Global Food Security* , the *Mary Emily Clinical Nutrition Research Unit* (MECNRU), and the MUHC Teaching Hospitals. Students can conduct research or participate in clinical rotations in Ghana and field sites in Asia, Africa, Latin America, and the Caribbean.

section 2.12.6.5: 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 advanced nutrition coursework and activities related to their thesis research. Graduates of our M.Sc. thesis degree have pursued successful careers in research, international health agencies, government agencies, and industry.

section 2.12.6.7: Master of Science,

2. The practicum option, which is reserved for those who hav

Professors

Luis B. Agellon; B.Sc., Ph.D.(McM.)

Hope Weiler; B.A.Sc.(Guelph), Ph.D.(McM.), R.D.(CDO) (*on leave*)

Linda J. Wykes; B.Sc., M.Sc., Ph.D.(Tor.)

Associate Professors

Niladri Basu; B.Sc.(Qu.), M.Sc.(Br. Col.), Ph.D.(McG.) (*Canada Research Chair*) (*joint appt. with Natural Resource Sciences*) (*Assoc. Member of Epidemiology and Biostatistics, Faculty of Medicine*)

Stéphanie Chevalier; B.Sc., M.Sc., Ph.D.(Montr.), Dt. P.(OPDQ) (*Assoc. Member Dept of Medicine*) (*Graduate Program Director*)

Treena Delormier: B.Sc., M.Sc.(McG.), Ph.D.(Montr.), P. Dt.(OPDQ) (*Associate Director of the Centre for Indigenous Peoples' Nutrition and Environment*)

Kristine G. Koski; B.S., M.S.(Wash.), Ph.D.(Calif.), R.D.(U.S.)

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

Grace S. Marquis; B.A.(Ind.), M.Sc.(Mich. St.), Ph.D.(Cornell)

Hugo Melgar-Quiñonez; M.Sc.(SPHM), M.D.(USAC), D.Sc.(Friedrich Schiller) (*Academic Scholar, Margaret A. Gilliam Institute for Global Food Security*)

Assistant Professors

Anne-Sophie Brazeau; B.Sc., Ph.D.(Montr.), P. Dt.(OPDQ) (*Director, Dietetics Education and Practice*)

Ryan Mailloux; B.Sc., Ph.D.(Laur.)

Daiva Nielsen; B.Sc., Ph.D.(Tor.)

Academic Associate

Patrick Cortbaoui; Ph.D.(McG.), Ag.Eng. (*Managing Director, Margaret A. Gilliam Institute for Global Food Security*)

Senior Faculty Lecturers

Sandy Phillips; B.Sc., M.Sc.(A.)(McG.), Dt. P. (*University Coordinator, Professional Practice (Stage) in Dietetics*)

Hugues Plourde; B.Sc.(McG.), M.Sc., Ph.D.(Montr.), Dt. P.

)

Associate Members

Parasitology: Marilyn E. Scott

Adjunct Professor

Kevin A. Cockell; B.Sc., Ph.D.(Guelph) (*Health Canada*)

Isabelle Germain; B.Sc.(Montr.), M.Sc., Ph.D.(McG.) (*Agriculture and Agri-Food Canada*)

Elizabeth D. Mansfield; B.Sc.(C'dia), B.Sc., M.Sc., Ph.D.(McG.),

Affiliate Members

Marie-Ève Besner; B.Sc.(Laval), PDt (*Montreal Children's Hospital*)

Sarah Bluden; B.Sc.(McG.), PDt, CDE (*LMC Diabetes and Endocrinology*)

Sophie Brousseau; B.Sc.(McG.), PDt (*Ste-Anne's Hospital*)

Linda Falcon; B.Sc.(Montr.), PDt (*Douglas Mental Health Institute*)

Alexander McLean; B.Sc.(McG.), PDt (*Lakeshore General Hospital*)

Monica Melcone; B.Sc.(McG.), PDt (*Ste-Anne's Hospital*)

Laura Li Ching Ng; B.Sc.(McG.), PDt (*McGill University Health Centre*)

Marilyn Rabin; B.Sc.(McG.), PDt (*Douglas Mental Health Institute*)

Donna Schafer; B.Sc., M.Sc.(McG.), PDt (*CIUSSS Centre-Ouest de l'Ile de Montréal*)

Sondra Sherman; B.Sc., B.F.Sc.(McG.), RD, CDE (*Jewish General Hospital*)

Patricia Urrico; B.Sc.(McG.), PDt (*Jewish General Hospital*)

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

Thesis Courses (33 credits)

NUTR 680	(7)	Human Nutrition M.Sc. Thesis 1
NUTR 681	(8)	Human Nutrition M.Sc. Thesis 2
NUTR 682	(9)	Human Nutrition M.Sc. Thesis 3
NUTR 683	(9)	Human Nutrition M.Sc. Thesis 4

Required Courses (3 credits)

NUTR 695	(1)	Human Nutrition Research Orientation
NUTR 696	(1)	Human Nutrition Seminar
NUTR 697	(1)	MSc Final Presentation

Complementary Courses (9 credits)

3 credits in graduate-level statistics

3 credits in graduate-level research methods

3 credits in graduate-level courses (chosen in consultation with supervisory committee)

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

This program is open to students with a B.Sc. in nutrition or an allied health profession, including biochemistry, kinesiology, physiology, or other related field, who would like to become a member of the Ordre professional des diététistes du Québec. Students may be required to complete a qualifying year (a variable number of required undergraduate credits), before taking the required M.Sc.Applied professional course, complementary courses, and elective courses (46 credits), followed by a Stage (Internship) component, which includes a practice based project (37 credits). On completion, students will meet OPDQ credits and professional practice requirements for licensure as a registered dietitian. A basic level or professional French competency will be required to complete the professional practice Stage component. The entrance requirements of a CGPA of 3.5 must be maintained throughout the program.

Required Courses (74 credits)

NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 505	(3)	Public Health Nutrition
NUTR 513	(3)	Credentialing in Dietetics
NUTR 515	(1)	Dietetics French Examination
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
NUTR 606	(3)	Human Nutrition Research Methods
NUTR 607	(3)	Counselling in Professional Practice
NUTR 611	(3)	Graduate Professional Practice 1
NUTR 612	(8)	Graduate Professional Practice 2 Management
NUTR 613	(7)	Graduate Professional Practice 3 Clinical Nutrition
NUTR 614	(8)	Graduate Professional Practice 4 Community Nutrition
NUTR 615	(7)	Graduate Prof Practice 5 Clinical Nutrition
NUTR 625	(1)	Emerging Issues for Nutritionists
NUTR 626	(2)	Writing for Dietetics Practice
NUTR 629	(6)	Professional Dietetics Project
NUTR 651	(3)	M.Sc. (Applied) Literature Review
NUTR 660	(1)	M.Sc.(Applied) Final Presentation
NUTR 695	(1)	Human Nutrition Research Orientation
NUTR 696	(1)	Human Nutrition Seminar

(6 credits)

6 credits from the following:

AEMA 610	(3)	Statistical Methods 2
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 560	(3)	Biology of Lactation
EDKP 654	(3)	Sport Psychology
EDPC 501	(3)	Facilitating Relationships
EDPC 504	(3)	Communication and Critical Conflict Resolution
EDPE 502	(3)	Theories of Human Development
EPIB 507	(3)	Biostats for Health Sciences
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 538	(3)	Food Science in Perspective
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
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
NUTR 641	(3)	Advanced Global Food Security
PSYC 650	(3)	Advanced Statistics 1

Elective Courses (3 credits)

To be chosen, at the 500 level or higher, in consultation with the Program Coordinator.

2.12.6.7 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) Literature Review
NUTR 660	(1)	M.Sc.(Applied) Final Presentation
NUTR 695	(1)	Human Nutrition Research Orientation
NUTR 696	(1)	Human Nutrition Seminar

Complementary Courses (18 credits)

3 credits in statistics at the 500 level or higher

3 credits in research methods at the 500 level or higher

12 credits of course work, at the 500 level or higher, in Nutrition, Animal Science, or Food Science chosen in consultation with the student's supervisor.

Elective Courses (9 credits)

9 credits of 500-level or higher courses in consultation with the student’s academic adviser or supervisor.

2.12.6.8 Master of Science, Applied (M.Sc.A.) Human Nutrition (Non-Thesis): Project (45 credits)

Research Project (12 credits)

NUTR 652	(3)	M.Sc. (Applied) Project 1
NUTR 653	(3)	M.Sc. (Applied) Project 2
NUTR 654	(3)	M.Sc. (Applied) Project 3
NUTR 655	(3)	M.Sc. (Applied) Project 4

Required Courses (6 credits)

NUTR 651	(3)	M.Sc. (Applied) Literature Review
NUTR 660	(1)	M.Sc.(Applied) Final Presentation
NUTR 695	(1)	Human Nutrition Research Orientation
NUTR 696	(1)	Human Nutrition Seminar

Complementary Courses (18 credits)

3 credits of 500-level or higher Statistics.

3 credits in research methods at the 500 level or higher

12 credits of course work, at the 500 level or higher

- Agricultural Economics (M.Sc. only)
- Entomology (Environment and Neotropical Environment options available)
- Microbiology (Bioinformatics and Environment options available)
- Renewable Resources (this includes Forest Science, Micrometeorology, Soil Science, and Wildlife Biology; Environment and Neotropical Environment options available)

An **interdisciplinary** option in Bioinformatics for doctoral students in Microbiology is also available.

The Department possesses, or has access to, excellent facilities for laboratory and field research. Affiliated with the Department are the *Lyman Entomological Museum and Research Laboratory* , the *Molson Nature Reserve* , the *Morgan Arboretum* , and the *Ecomuseum* of the *St. Lawrence Valley Natural History Society*; details are available on the *Natural Resource Sciences website*.

Master of Science Degrees

section 2.12.7.5: Master of Science (M.Sc.) Agricultural Economics (Thesis) (45 credits)

This program provides students with applied economic concepts and tools to identify, define, and analyze economic problems affecting the performance of the agri-food sector and the environment. The ideal prior preparation is an undergraduate degree in Agricultural Economics or Economics, including undergraduate courses in intermediate economic theory (micro and macro), calculus, algebra, statistics, and econometrics.

Attention is given to the development of analytical skills in the broad areas of agricultural, environmental, and ecological economics. Students may specialize, by way of their research program, in agribusiness, development, finance, marketing and trade, policy, and resource economics. The program prepares graduates for rewarding careers in research, analysis, and decision-making in academia, private and NGO sectors, and government.

section 2.12.7.6: Master of Science (M.Sc.) Entomology (Thesis) (45 credits)

Graduate students in the entomology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include terrestrial arthropod ecology, physiology, zoogeography, diversity, and systematics. Our students typically have exceptionally strong backgrounds in one or more of these specialties and an interest in research that advances both theory and applied management of ecosystems. After completing their degrees they go on to careers in academia, environmental policy, government agencies, industry, and other fields.

section 2.12.7.7: Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits)

Please contact the Department for more information about this program.

section 2.12.7.8: Master of Science (M.Sc.) Entomology (Thesis): Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 2.12.7.9: Master of Science (M.Sc.) Microbiology (Thesis) (45 credits)

Graduate students in the microbiology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program range from the study of microbial diversity in extreme environments, either natural or man-induced, to the role of microbes in managed ecosystems, such as in agriculture and forests. Our students typically have e

section 2.12.7.13: Master of Science (M.Sc.) Renewable Resources (Thesis): Neotropical Environment (48 credits)

Please contact the Department for more information about this program.

section 2.12.7.14: Master of Science (M.Sc.) Renewable Resources (Non-Thesis): Environmental Assessment (45 credits)

This program is currently not offered.

Ph.D. Degrees in Entomology, Microbiology, or Renewable Resources (Includes Micrometeorology, Forest Science, Soil Science, and Wildlife Biology)

section 2.12.7.15: Doctor of Philosophy (Ph.D.) Entomology

Graduate students in the entomology program work within, and often across, multiple disciplines of basic and applied environmental sciences. Specialties within the program include terrestrial arthropod ecology, physiology

Direct admission to the M.Sc. requires the completion of a B.Sc. in Agricultural Economics or a closely related area, with the minimum equivalent cumulative grade point average (CGPA) of 3.0/4.0 (second class–upper division) or minimum grade point average (GPA) of 3.2/4.0 during the last two years of full-time university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

The ideal preparation includes courses in agricultural economics, economic theory (intermediate micro and macro), calculus, linear algebra, and statistics. Students with deficiencies in these areas will be required to take additional courses as part of their degree program.

M.Sc. Thesis (Entomology, Microbiology, Renewable Resources)

Candidates are required to have a bachelor's degree with a minimum equivalent CGPA of 3.0/4.0 (second class–upper division) or a minimum GPA of 3.2/4.0 during the last two years of full-time univ

Graduate Program Director

Benoît Côté

Program Director - Agricultural Economics

Paul J. Thomassin

Emeritus Professors

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

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

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

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

Peter H. Schuepp; Dipl.Sc.Nat.(Zürich), Ph.D.(Tor.) – *Agricultural Physics*

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

Professors

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

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

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

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

Joann Whalen; B.Sc.(Agr.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.) – *Soil Science* (*William Dawson Scholar*)

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

Associate Professors

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

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

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

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

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

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

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

Gordon Hickey; B.For.Sci.(Melb.), Ph.D.(Br. Col.), EMPA(ANZSOG, Monash) – *Sustainable Natural Resource Management* (*William Dawson Scholar*)

Murray Humphries; B.Sc.(Manit.), M.Sc.(Alta.), Ph.D.(McG.) – *Wildlife Biology* (*Northern Research Chair*)

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

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

Assistant Professors

Kyle Elliott; B.Sc.(Br. Col.), M.Sc., Ph.D.(Manit.) (*Canada Research Chair*) – *Avian Conservation Biology*

Aurélie Harou; B.Sc.(Sus.), M.Sc.(Calif., Davis), Ph.D.(Cornell)

Jessica Head; B.Sc.(McG.), Ph.D.(Ott.) – *Ecotoxicology*

Cynthia Kallenbach; B.Sc.(Sonoma St.), M.Sc., M.Sc.(Calif., Davis), Ph.D.(N. Hamp.)

Melissa McKinney; B.Sc.(Br. Col.), M.Sc.,(Windsor), Ph.D.(Car.)

Denis Roy; B.Sc.(Qu.), M.Sc., Ph.D.(Windsor)

Associate Member

Adjunct Professors

Asim Biswas

Kimberly Fernie

Charles W. Greer

Baoluo Ma

Christopher Solomon

Affiliate Member

Geoffrey Sunahara

2.12.7.5 Master of Science (M.Sc.) Agricultural Economics (Thesis) (45 credits)

Graduate students receive rigorous training in economic theory, institutional economics, and quantitative methods, with a focus on applying economic concepts and tools to identify, define, analyze, and solve economic problems in 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 analytical skills in the broad areas of agricultural and environmental economics. Students may specialize, by way of their research program, in agribusiness, resource economics, development, finance, marketing, trade, policy, and environmental economics. The program is intended to prepare graduates for rewarding careers in research, analysis, and decision-making in academia, private, NGO, and government sectors.

Thesis Courses (24 credits)

AGEC 691	(3)	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 (3 credits)

AGEC 690	(3)	Seminar in Agricultural Economics

Complementary Courses (18 credits)

6 credits, two theory courses chosen from:

ECON 610	(3)	Microeconomic Theory 1
ECON 620	(3)	Macroeconomic Theory 1

or a theory course, at the 500 level or higher, approved by the Graduate Program Director.

At least 3 credits of quantitative methods course chosen from:

ECON 662D1	(3)	Econometrics
ECON 662D2	(3)	Econometrics
ECON 665	(3)	Quantitative Methods

or a quantitative course, at the 500 level or higher, approved by the Graduate Program Director.

A minimum of 3 credits 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
AGEC 685	(3)	Selected Topics in Agricultural Economics

Additional Complementary Courses: To complete the 45 credit program requirement from courses in your field or thesis area at the 500 level or higher in consultation with the Agricultural Economics Adviser.

2.12.7.6 Master of Science (M.Sc.) Entomology (Thesis) (45 credits)

Thesis Courses (36 credits)

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

Required Courses (3 credits)

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

Complementary Courses (6 credits)

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

2.12.7.7 Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits)

Thesis Courses (36 credits)

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

Required Courses (7 credits)

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

Complementary Courses (3 credits)

One of the following courses:

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

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

2.12.7.8 Master of Science (M.Sc.) Entomology (Thesis): Neotropical Environment (48 credits)

Thesis Courses (36 credits)

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

Required Courses (9 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
NRSC 643	(1)	Graduate Seminar 1
NRSC 644	(1)	Graduate Seminar 2
NRSC 651	(1)	Graduate Seminar 3

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

Elective Courses (3 credits)

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

2.12.7.9 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.

2.12.7.10 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.

2.12.7.11 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.

2.12.7.12 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 follo

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)	Special Topics 7

Complementary Courses (6 credits)

500- or 600-level relevant courses to be chosen in consultation with the Supervisor and Program Director.

2.12.7.15 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.

2.12.7.16 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

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.

Doctor of Philosophy (Ph.D

NRSC 754	(0)	Graduate Seminar 7

Coursework

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

Complementary Courses

One course chosen from the following:

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

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

2.12.7.21 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.

2.12.7.22 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 En

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

2.12.8.2 About Parasitology

The Institute of Parasitology offers **M.Sc.** and **Ph.D.** thesis research degrees in Parasitology and a non-thesis **M.Sc. (Applied)** degree in Biotechnology (Information on the Biotechnology programs is found in the *section 2.12.4: Biotechnology* section). For the Ph.D. program, it is possible to add a Bioinformatics or Environment option.

The Institute of Parasitology teaches and researches the phenomenon of parasitism in humans, livestock, and other animals, and the control of parasitic diseases. The interface of parasitism/immunity/nutrition is also examined in the context of the host-parasite interaction. Current research involves:

- molecular biology;
- molecular genetics;
- biochemistry;
- bioinformatics;
- pharmacology;
- control and drug resistance;
- immunology;
- epidemiology;
- biology;
- neurobiology;
- drug discovery;
- the ecology of parasitic organisms, such as helminths and protozoa, viruses, and cancer cells.

The non-thesis program in Biotechnology offers course-based curricula with practical training in laboratory courses and internships.

The Institute is housed in its own building adjacent to the Macdonald Campus Library and has well-equipped modern laboratories with excellent facilities for molecular research, and includes a confocal suite. Small and large animal facilities are available on the Macdonald campus. The Institute is affiliated with the *J.D. MacLean Centre for Tropical Diseases* at the McGill University Health Centre (MUHC).

Graduates typically go on to academic and research careers; enter private industry in the biotechnology and pharmaceutical sectors in research, management, technical services, and sales; or accept positions in the health, agriculture, food safety, and other government sectors.

Parasitology Programs

section 2.12.8.5: Master of Science (M.Sc.) Parasitology (Thesis) (45 credits)

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

section 2.12.8.6: Doctor of Philosophy (Ph.D.) Parasitology

An advanced, original research project is undertaken in an area of parasitology supervised by faculty staff. Coursework is minimal. Graduates are well suited for teaching positions in academia or scientific careers in a university,4.153 2.153 213.16 Tmsito(ersit15 70.562i082 213.16 Tm(ersity)TjQsitology Pr)Tj1 0 01 T

2.12.8.3 Parasitology Admission Requirements and Application Procedures

2.12.8.3.1 Admission Requirements

2.12.8.4 Parasitology Faculty

Director

Armando Jardim

Professors

Timothy G. Geary; B.Sc.(Notre Dame), Ph.D.(Mich.) (*Canada Research Chair in Parasite Biotechnology*)

Roger Prichard; B.Sc., Ph.D.(NSW) (*James McGill Professor*)

Marilyn Scott; B.Sc.(New Br.), Ph.D.(McG.)

Associate Professors

Robin N. Beech; B.Sc.(Nott.), Ph.D.(Edin.)

Elias Georges; B.Sc., Ph.D.(McG.) (*Canadian Pacific Chair in Biotechnology*)

Armando Jardim; B.Sc., Ph.D.(Vic., BC)

Petra Rohrbach; B.Sc.(McG.), Ph.D.(Heidel.)

Reza Salavati; B.A., M.A.(Calif. St.), Ph.D.(Wesl.)

Assistant Professors

Igor Cestari; B.Sc.(UFPE, Brazil), M.Sc., Ph.D.(FIOCRUZ, Brazil)

Fernando Lopes; B.Sc.(UniBH, Brazil), M.Sc., Ph.D.(UFMG, Brazil)

Jianguo Xia; B.Sc.(Peking), M.Sc., Ph.D.(Alta.) (*Canada Research Chair in Bioinformatics and Big Data Analytics*)

Associate Members

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

Momar Ndao; B.Sc., DVM(Dakar), M.Sc., Ph.D.(IMFA, Belgium)

Martin Olivier; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

Mary Stevenson; B.A.(Hood Coll.), M.Sc., Ph.D.(CUA)

Brian Ward; M.Sc.(Oxf.), M.D.,C.M.(McG.), DTM&H(Lond.)

Adjunct Professors

Boakye Boatin; M.D.(Ghana), M.Sc.(Liv.), M.Phil.(Lond.)

Tatiana Scorza Dagert; B.Sc.(Los Andes, Venezuela), M.Sc., Ph.D.(Vrije, Belgium)

Traian Sulea; M.Sc.(Polytechnic, Timi oara), Ph.D.(West, Timi oara)

Karine Thivierge; B.Sc.(Laval), M.Sc., Ph.D.(McG.)

2.12.8.5 Master of Science (M.Sc.) Parasitology (Thesis) (45 credits)

Thesis Courses (35 credits)

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

Required Courses (10 credits)

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.

2.12.8.6 Doctor of Philosophy (Ph.D.) Parasitology

Thesis

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

Required Courses (10 credits)

PARA 635	(3)	Cell Biology and Infection
PARA 655	(3)	Host-Parasite Interactions
P	(0)	PhD Comprehensive Exam

2.12.8.8 Doctor of Philosophy (Ph.D.) Parasitology: Environment

Thesis

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

Required Courses (14 credits)

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 701	(0)	PhD Comprehensive Exam
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.

2.12.9 Plant Science

Location

management, crop quality, plant ecology, the epidemiology and biology of plant diseases, epigenetics, biosystematics, recombinant DNA technology, mycology, weed biology, tissue culture, plant biochemistry, and bioinformatics. Facilities include:

- Horticultural Research Centre
- Emile A. Lods Agronomy Research Centre
- greenhouses
- growth cabinets
- McGill University Herbarium
- multi-scale imaging facility
- genome editing laboratory
- plant-pest containment laboratory
- field phenomics platform

An advisory committee is named for each student and has the responsibility of developing the program of study appropriate to the student's background and area of specialization.

section 2.12.9.5: Master of Science (M.Sc.) Plant Science (Thesis) (45 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field.

section 2.12.9.6: Master of Science (M.Sc.) Plant Science (Thesis): Bioinformatics (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. The goal of the Bioinformatics option is to train students to become researchers in the interdisciplinary field of bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This option has an added emphasis on bioinformatics, including additional seminars. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field.

section 2.12.9.7: Master of Science (M.Sc.) Plant Science (Thesis): Environment (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field. This Environment graduate option has an added emphasis on environmental sciences, including additional courses and seminars. It is aimed at students who wish to take an interdisciplinary approach in their graduate research on environmental issues and who wish to benefit from interactions with students from a wide range of disciplines.

section 2.12.9.8: Master of Science (M.Sc.) Plant Science (Thesis): Neotropical Environment (48 credits)

This M.Sc. in Plant Science requires approximately two years for completion. Overall, the program consists of two graduate-level courses, seminars, and a research project leading to a thesis. The courses and the research project are chosen and defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, the private sector, or further graduate studies in a related field. This option has an added emphasis on neotropical environments, including additional courses and seminars. Part of the program takes place in Panama.

section 2.12.9.9: 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.

2.12.9.3.3 Application Dates and Deadlines

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

Adjunct Professors

Konstantinos Aliferis

Annick Bertrand

2.12.9.5 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.

2.12.9.6 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.

2.12.9.7 Master of Science (M.Sc.) Plant Science (Thesis): Environment (48 credits)

Thesis Courses (39 credits)

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

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (6 credits)

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

Complementary Courses (3 credits)

Chosen from one of the following courses:

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

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

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

2.12.9.8 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)

T

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.

2.12.9.12 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.

2.12.9.13 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.

2.12.9.14 Graduate Certificate (Gr. Cert.) Bioinformatics (15 credits)

Required Courses (9 credits)

BINF 511	(3)	Bioinformatics for Genomics
BINF 660	(3)	Advances in Bioinformatics
BTEC 555	(3)	Structural Bioinformatics

Complementary Courses (6 credits)

6 credits from the following:

ANSC 565	(3)	Applied Information Systems
BMDE 652	(3)	Bioinformatics: Proteomics
COMP 616D1	(1.5)	Bioinformatics Seminar
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

3.4 Graduate Studies at a Glance

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

3.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
- to include Postdocs in departmental career and placement opportunities;
- to refer Postdocs to the appropriate University policies and personnel for the resolution of conflict that may arise between a Postdoc and a supervisor.

v. Some examples of responsibilities of the supervisor are:

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

vi. Some examples of responsibilities of Postdocs are:

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

vii. Some examples of the responsibilities of the University are:

- to register Postdocs;
- to pro

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
-

section 3.12.1.7: 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 tw, ses): Eg98P bevironaddment48 creovironn

- *GRE* results – for international applicants only
- *TOEFL* – for non-anglophone and non-francophone applicants
- Writing Sample – a recent sample of the applicant's written work, on any topic (not necessarily within the desired field of graduate study), not necessarily previously submitted for evaluation or publication in English or French, and no more than 15 pages in length
- Personal Statement – an essay in which the applicant describes reasons for applying to graduate studies and indicates qualifications, qualities, or circumstances the applicant feels to be significant. Applicants usually provide information about educational and professional goals, and discuss their interest in the desired field of study
- Curriculum Vitae

3.12.1.3.3 Application Dates and Deadlines

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

Application Opening Dates	Application Deadlines		
All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
			Dec. 15

Assistant Professors

Katherine Lemons; B.A.(Stan.), M.A., Ph.D.(Calif., Berk.)

Lisa Overholtzer; B.A.(Calif., Berk.), M.A., Ph.D.(N'western) (*William Dawson Scholar*)

Associate Members

Gabriella Coleman; B.A.(Col.), M.A., Ph.D.(Chic.)

Laurence J. Kirmayer; B.Sc., M.D.,C.M., Dip.Psych.(McG.)

Samuel Veissière; B.Sc.(Dublin), M.A., Ph.D.(McG.)

Adjunct Members

Gwen Bennett; B.A.(N'western), M.A., Ph.D.(Calif.-LA)

André Costopoulos; B.A.(McG.), M.Sc.(Montr.), Ph.D.(Oulu)

Arthur Dyke; B.Sc.(Nfld.), M.A., Ph.D.(Colo.)

Nadia Ferrara; B.A.(C'dia), M.A.(Vermont Coll.), M.Sc.(McG.), Ph.D.(Montr.)

Tobias Rees; M.A.(Tübingen), Dip.Neuropharmacology(Inst. Pasteur), Ph.D.(Calif., Berk.)

Isabelle Schulte-Tenckhoff; Dip.(Geneva), Ph.D. (UNIL, Switzerland)

3.12.1.5 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.

3.12.1.6 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.

3.12.1.7 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:

ENVR 5Adv0 0 1 230.624 500.583 715(ENVR 5ancr)T0 0 1 254.697 6m(483 715(ENVR 5 0 0 1 268.542 0.76583 715(

Note: To ensure that students understand prior research, they must define three subfields that intersect with the thesis topic.

ANTH 602	(3)	Theory 1
ANTH 603	(3)	Theory 2
ANTH 609D1	(3)	Proseminar in Anthropology
ANTH 609D2	(3)	Proseminar in Anthropology
ANTH 701	(0)	PhD Comprehensive Examination
ANTH 702	(0)	PhD Proposal Defence
BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy

Complementary Courses (6 credits)

6 credits, at the 500, 600, or 700 level, selected from courses within and/or outside the department relevant to the student's research area and in consultation with the student's supervisor and advisory committee. At least 3 of the 6 credits must also be pre-approved by the Neotropical Environment Director.

Elective Courses (0-24 credits)

A maximum of 24 credits at the 500 level or higher can be taken inside or outside the Department (e.g., language training, methodological training, history or regional studies courses).

Language Requirement

A language examination, normally French, must be passed before an oral examination of the research proposal may be scheduled. Francophone students can satisfy the language requirement by demonstrating competency in English. The purpose of the language requirement is to ensure that the student has access to anthropological literature in at least two languages. Under special circumstances, a language other than English or French may be substituted, provided that there is sufficient anthropological literature on the student's research topic in that language.

The Ethics application and the language exam must be submitted before the proposal defence. They can be submitted at any point during PhD2 and PhD3 (before the date of the proposal defence is chosen.)

If admitted to Ph.D. 1.

In addition to the above requirements, 15 credits from courses at the 500 level or higher within and/or outside of the Department relevant to the student’s research area in consultation with the student’s supervisor and/or PhD committee.

3.12.2 Art History

3.12.2.1 Location

Department of Art History and Communication Studies
Arts Building, Room 155-B
853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada
Telephone: 514-398-4933
Email: *graduate.ahcs@mcgill.ca*
Website: *www.mcgill.ca/ahcs*

3.12.2.2 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;
- Mediev

- East Asian;
- Architectural History;
- New Media;
- Print Culture;
- Gender and Sexuality;
- Race and Representation;
- Art historical methodologies, notably Feminism, Postcolonialism, and Queer Theory.

All of our faculty members are outstanding scholars in their respective fields and are involved in a wide range of major collaborative and individual research projects, many involving faculty from other universities, departments, and programs (such as Communication Studies, English and Literary Studies, Histories of Science and Medicine, Religious Studies, Classics, History, and Women's Studies). These research projects allow us to offer relevant research training opportunities and assistantships to our graduate students.

McGill is situated in one of the most vibrant cities in North America, and Montreal offers myriad opportunities for graduate students to engage with local arts institutions, either officially, through internships and research fellowships, or unofficially, through volunteering. Local institutions range from large-scale public museums (such as the *Musée d'art contemporain*, the *Musée des beaux arts*, and the National Gallery of Canada in Ottawa) to smaller alternative galleries (such as feminist arts spaces *La Centrale Galerie Powerhouse* and Studio XX). There are also university-based venues such as the Redpath Museum on campus and the McCord Museum of Canadian History (which houses the McGill University Archives), and independent contemporary art galleries such as DHC and the Darling Foundry. The *Canadian Centre for Architecture*, with its archives and exhibitions, and the *Bibliothèque et Archives nationales du Québec* also offer grants and research opportunities for local graduate students. A close relationship with the other three major universities in Montreal (Concordia University, *Université de Montréal*, and *Université du Québec à Montréal*) affords students access to a broad network of additional courses, lectures, and colleagues across the city.

To obtain financial aid information, please consult the Graduate and Postdoctoral Studies website at *www.mcgill.ca/gps/funding* or email *graduate.fellowships@mcgill.ca*.

Further information on the Department of Art History and Communication Studies is available on our *website*.

Residency Requirements

For students entering the master's program in Art History, three semesters of full-time resident study at McGill University are required to complete the degree. "Residence" means that the student is enrolled on a full-time basis during this period (i.e., it does not refer to housing or accommodations). This residence period represents the minimum time required to obtain the degree; however, there is no guarantee that the required coursework can be completed within this time. Students may register for additional semesters to complete the program, and most students take four semesters (see *University Regulations & Resources > Graduate > Regulations > Registration > section 1.2.11: Time Limitation*). A typical timeline and further details regarding completing the M.A. may be found at *www.mcgill.ca/ahcs/graduate/ahgradprograms/ma*.

Coursework

Before classes begin, each student will meet with either the Graduate Program Director or with his/her supervisor to determine an appropriate selection of courses which, when considered in relation to the student's previous record, will provide a balanced breadth of coverage and specialization.

The candidate is required to pass, with a mark of 65% (B-) or better, all those courses that have been designated by the Department as forming a part of his/her program. These are the courses that have been entered on the registration form. A few extra courses may be taken, but it is then the responsibility of the student to see that these courses are clearly marked "not required" on the registration form.

section 3.12.2.5: Master of Arts (M.A.) Art History (Thesis) (45 credits)

Please see the Departmental *website* for more information about this program.

section 3.12.2.6: Master of Arts (M.A.) Art History (Thesis): Gender and Women's Studies (45 credits)

M.A. students who have selected the Graduate Option in Gender and Women's Studies complete a GWS coursework component as part of the total credits required for the M.A. degree. All course selection must first be approved by the supervisor/graduate program director.

section 3.12.2.7: Doctor of Philosophy (Ph.D.) Art History

Please see the Departmental *website* for more information about this program.

section 3.12.2.8: Doctor of Philosophy (Ph.D.) Art History: Gender and Women's Studies

Ph.D. students who have selected the Graduate Option in Gender and Women's Studies complete a GWS coursework component as part of the total credits required for the Ph.D. degree. All course selection must first be approved by the supervisor/graduate program director.

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3.12.2.3 Art History Admission Requirements and Application Procedures

3.12.2.3.1 Admission Requirements

Entrance into either the M.A. or Ph.D. programs is limited to the best qualified applicants. A minimum CGPA of 3.3 or the equivalent, i.e., 75%, is highly recommended. The Department requires a research statement of at least 250 words outlining the candidate's particular research interest in Art History as well as a sample of his/her written work such as a seminar paper or, in the case of Ph.D. applicants, all or part of the M.A. paper or thesis. For a complete list of materials required, see *section 3.12.2.3.2: Application Procedures* below.

For international applicants whose first language is not English, please see *www.mcgill.ca/gradapplicants/international/apply/proficiency*.

M.A. Program

To apply to the M.A. program, candidates are normally expected to have a B.A. degree in Art History or in another closely related field; candidates may come from other fields such as literary studies, comparative literature, ethnic studies, Canadian studies, architecture, urban planning, film studies, history, performance studies, or philosophy/aesthetics, but must have taken at least 10 courses relating to the history and theory of some aspect of the visual arts, preferably covering a wide range of historical time periods and geographical regions. In exceptional cases, applicants without a strong background in art history may be admitted but with additional requirements arranged in consultation with the Director of Graduate Studies to be completed before matriculation in the M.A. program.

Ph.D. Program

In order to apply to the Ph.D. program, candidates must hold an M.A. degree preferably in Art History or in a closely related field together with an appropriate number of art history and related courses such as are described for entrance into the M.A. program. All candidates for the Ph.D. program are strongly advised to contact a potential supervisor well in advance of submitting the application in order to establish a relationship. Applicants who have not vetted their

3.12.2.4 Art History and Communication Studies Faculty

Chair

Mary Hunter

Directors

Cecily Hilsdale – *Director, Graduate Programs in*

Master of Ar

WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

15 credits at the 500 level or higher to be chosen in consultation with a supervisor.

3 credits of complementary coursework must be chosen from one of the courses below:

COMS 633	(3)	Feminist Media Studies
WMST 602	(3)	Feminist Research Symposium

Or a 3-credit, option-approved course at the 500, 600, or 700 level, taught outside WMST (e.g., an option-approved Art History course, or an option-approved course taught in another discipline).

3 credits of the 15 credits of complementary coursework may be taken at another university in Montreal.

3.12.2.7 Doctor of Philosophy (Ph.D.) Art History

Thesis

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

Required Courses (3 credits)

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 extensiv

Thesis

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

Further information on the Department of Art History and Communication Studies is available on our *website*.

Master's and Ph.D. Degrees

Students enter our graduate programs from a variety of disciplinary backgrounds, though all have a history of documented academic excellence and aptitude for advanced scholarly research. Ov

3.12.4.3.2.1 Additional Requirements

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

- Research Proposal – at least 500 words
- Written Work – two examples of academic writing

3.12.4.3.3 Application Dates and Deadlines

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

	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 15	Dec. 15	Dec. 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: There are no Winter or Summer term admissions for the M.A. and Ph.D. programs.

3.12.4.4 Communication Studies Faculty

See *section 3.12.2.4: Art History and Communication Studies Faculty*.

3.12.4.5 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

COMS 693	(6)	M.A. Thesis Preparation 2
COMS 694	(6)	M.A. Thesis Preparation 3
COMS 695	(6)	M.A. Thesis Preparation 4

Required Courses (6 credits)

COMS 616	(3)	Staff-Student Colloquium 1
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

All complementary courses must be at the 500 level or higher in Communication Studies.

3 credits of complementary coursework must be in Gender and Women's Studies

WMST 602	(3)	Feminist Research Symposium

OR, one 3-credit course on gender/women's issues at the 500, 600, or 700 level (may be in the Department or outside).

3.12.4.7 Doctor of Philosophy (Ph.D.) Communication Studies

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

Thesis

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

Required Courses (3 credits)

COMS 616	(3)	Staff-Student Colloquium 1
COMS 702	(0)	Comprehensive Examination
COMS 703	(0)	Dissertation Proposal

Complementary Courses (15 credits)

15 credits of 500-, 600-, or 700-level COMS courses; one course outside COMS requires approval of the Graduate Program Director.

Language Requirement

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.

3.12.5 East Asian Studies

3.12.5.1 Location

Department of East Asian Studies
688 Sherbrooke Street West, Room 425
Montreal QC H3A 3R1
Canada
Telephone: 514-398-3650
Email: *asian.studies@mcgill.ca*
Website: *www.mcgill.ca/eas*

3.12.5.2 About East Asian Studies

The Department of East Asian Studies is committed to offering a rigorous, innovative, and interdisciplinary environment in which students learn a variety of critical and historical approaches to the study of East Asian arts, cultures, histories, languages, literatures, media, and social practices. The research expertise of our faculty members spans a wide range of disciplinary backgrounds including:

- anthropology;
- archaeology;
- art history;
- ethnic studies;
- film and media studies;
- gender and women's studies;
- history and literature;
- religion both institutional and popular.

The unique curriculum of East Asian Studies allows students to gain an intellectually rich, historically informed, theoretically sophisticated, and materially grounded understanding of China, Japan, and K

section 3.12.5.5: Master of Arts (M.A.) East Asian Studies (Thesis) (Ad Hoc) (45 credits)

Asian language. Graduates of our program are pursuing careers in academia, publishing, government service, the financial industry, media and communications, and other fields.

section 3.12.5.6: 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.

3.12.5.3 East Asian Studies Admission Requirements and Application Procedures

3.12.5.3.1 Admission Requirements

General

A minimum standing equivalent to a cumulative grade point average (CGPA) of 3.0 out of 4.0, or a GPA of 3.2/4.0 for the last two full-time academic years.

Applicants who have not studied at a Canadian institution must submit official copies of their Graduate Record Examination (GRE) at the time of application. These scores must come directly from the *Educational Testing Service* ; **hard copies and photocopies are not accepted**. A minimum Test of English as a Foreign Language (*TOEFL*) score of 86 (Internet-based test (iBT); with no less than 20 in each of the four component scores) is required of all applicants whose mother tongue is not English and who have not completed an undergraduate or graduate degree at a foreign institution where English is the language of instruction, or at a recognized Canadian institution (anglophone or francophone). Alternatively, students proving their English proficiency may use the International English Language Testing System (*IELTS*) examination, for which the minimum score is an overall band score of 6.5 (academic module). For the TOEFL and GRE, you must indicate the McGill University institution code: 0935.

M.A.

Applicants must hold, or expect to hold by September of the year of entry, a bachelor's degree in East Asian Studies or a related field. Applicants are expected to have proficiency in the East Asian language(s) most useful for the proposed graduate work (preferably three years or more of coursework, or equivalent).

Ph.D.

Applicants must hold, or expect to hold by September of the year of entry, a master's degree in East Asian Studies or a related field.

3.12.5.3.2 Application Procedures

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

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

3.12.5.3.2.1 Additional Requirements

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

- Curriculum Vitae;
- Research Proposal – approximately 500 words for master's and five pages for Ph.D. applicants. A description of the proposed research project, with brief bibliography, should be included in the Research Proposal;
- Writing Sample;
- GRE – required for applicants who have not studied at a Canadian university.

3.12.5.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 6	Jan. 6	Jan. 6
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.12.5.4 East Asian Studies Faculty

Chair

R. Philip Buckley; Ph.D.(Louvain) (*on sabbatical 2019–2020*)

TBA (*Interim*)

Director, Undergraduate Studies

Gal Gvili

Director, Graduate Program

Yuriko Furuhata

Emeritus Professor

Kenneth Dean; B.A.(Bro

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.

Doctor of Philosophy (Ph.DPh.D

- economic development;
- financial econometrics;
- industrial organization;
- health economics;
- international economics;
- labour economics;
- monetary economics;
- mathematical economics; and
- advanced theory.

section 3.12.6.5: Master of Arts (M.A.) Economics (Thesis) (48 credits)

This program is currently not offered.

The Master of Arts program in Economics (Thesis) serves students preparing for a Ph.D. in Economics. For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option.

section 3.12.6.6: Master of Arts (M.A.) Economics (Non-Thesis) (45 credits)

The Master of Arts program in Economics (Non-Thesis) serves students seeking to solidify and deepen their understanding of economics prior to a career in government or the private non-academic sector, and those preparing for a Ph.D. in Economics. For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option.

section 3.12.6.7: Master of Arts (M.A.) Economics (Non-Thesis): Development Studies (45 credits)

For those students interested in the interdisciplinary study of development, anchored in Economics, the Department offers the Development Studies Option (DSO). This program is offered as an option within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues.

section 3.12.6.8: Master of Arts (M.A.) Economics (Non-Thesis): Population Dynamics (45 credits)

The Population Dynamics Option (PDO) is open to students wishing to specialize in population dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and a course in microeconomic methods relevant for population studies. In addition, students will take one complementary course in Economics, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series.

section 3.12.6.9: Master of Arts (M.A.) Economics (Non-Thesis): Social Statistics (45 credits)

This program is currently not offered.

For students who wish to complement disciplinary training in Economics with research experience in applying statistical methods across the social sciences, the Department offers the Social Statistics Option. Students will normally complete the usual program course requirements, supplemented by further statistical courses, chosen in consultation with the option adviser, and subject to approval by the home department. Students will complete a statistics-based M.A. research paper (Economics, Political Science, Sociology) or thesis (Geography) in conjunction with an interdisciplinary “capstone seminar.”

Acceptance into the program is by application to the Social Statistics Option Committee and is contingent on acceptance into the M.A. program in one of the participating departments (Economics, Geography, Political Science, Sociology), which in turn requires meeting Graduate and Postdoctoral Studies admission requirements.

section 3.12.6.10: Doctor of Philosophy (Ph.D.) Economics

The Ph.D. program in Economics is designed to prepare students for research, whether in an academic or government setting, and teaching. The Department's faculty members conduct research in numerous areas of economics. The low student-faculty ratio ensures students receive individual attention to their own research, and are able to act as research assistants to the Faculty. The Department collaborates with the four other Economics departments in Montreal to extend the Ph.D.-level course offerings and to offer numerous external speakers and conferences.

Note: Changes may take place after this information has been published. Students are advised to contact the *Department of Economics* for

3.12.6.3 Economics Admission Requirements and Application Procedures

3.12.6.3.1 Admission Requirements

Professors

Robert D. Cairns; B.Sc.(Tor.), Ph.D.(MIT)

Rui Castro; M.A., Ph.D.(Roch.)

Russell Davidson; B.Sc., Ph.D.(Glas.), Ph.D.(Br. Col.) (*Canada Research Chair Tier 1*)

Jean-Marie Dufour; B.Sc.(McG.), M.Sc.(Montr.), M.A.(C'dia.), M.A.(Chic.), Ph.D.(Chic.) (*William Dow Chair of Political Economy*)

John W. Galbraith; B.A.(Qu.), M.Phil., D.Phil.(Oxf.)

Sílvia Gonçalves; B.A.(UNL), Ph.D.(Calif.-San Diego)

Christopher Green; M.A.(Conn.), Ph.D.(Wisc.)

Jagdish Handa; B.Sc.(LSE), Ph.D.(Johns Hop.)

Ngo Van Long; B.Ec.(LaT.), Ph.D.(ANU) (*James McGill Professor*)

Robin Thomas Naylor; B.A.(Tor.), M.Sc.(Lond.), Ph.D.(Cant.)

Francisco Ruge-Murcia; B.Sc.(Industrial, Santander), M.A., Ph.D.(Virg.)

Victoria Zinde-Walsh; M.A.(Wat.), M.Sc., Ph.D.(Moscow St.)

Associate Professors

Francisco Alvarez-Cuadrado; B.Sc.(Pontifica Comillas), M.A., Ph.D.(Wash.)

Matthieu Chemin; M.Sc. Eng.(Centrale Paris), M.Sc., Ph.D.(LSE)

Rohan Dutta; B.A.(St. Stephen’s College, Delhi), M.A.(DSE), Ph.D.(Wash.)

James Engle-Warnick; B.S.E.E.(Akron), M.B.A.(Carnegie), Ph.D.(Pitts.)

Franque Grimard; B.A.(York), Ph.D.(Pr0 1

M0 1 115.541 523.358T176)

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.

3.12.6.6 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.

3.12.6.7 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

SOCI 626	(3)	Demographic Methods

Complementary Courses (15 credits)

3-6 credits from the following:

(either ECON 662D1/D2 or ECON 665)

ECON 662D1	(3)	Econometrics
ECON 662D2	(3)	Econometrics
ECON 665	(3)	Quantitative Methods

Note: ECON 662D1/D2 or equivalent is strongly recommended but will not meet the 6-credit field requirement for the M.A.

Population Dynamics

3 credits from the following:

ECON 622	(3)	Public Finance
ECON 634	(3)	Economic Development 3
ECON 641	(3)	Labour Economics
ECON 734	(3)	Economic Development 4
ECON 741	(3)	Advanced Labour Economics
ECON 744	(3)	Health Economics
SOCI 502	(3)	Sociology of Fertility

6-9 credits of additional approved complementary courses at the 500 level or higher (two courses in the same/approved filed.)

ECON 510	(3)	Experimental Economics
ECON 525	(3)	Project Analysis
ECON 531	(3)	Historical Experience of Economic Development
ECON 546	(3)	Game Theory
ECON 577	(3)	Mathematical Economics 1
ECON 611	(3)	Microeconomic Theory 2
ECON 621	(3)	Macroeconomic Theory 2
ECON 622	(3)	Public Finance
ECON 623	(3)	Money and Banking
ECON 624	(3)	International Economics
ECON 625	(3)	Economics of Natural Resources
ECON 634	(3)	Economic Development 3
ECON 637	(3)	Industrial Organization and Regulation
ECON 641	(3)	Labour Economics
ECON 647	(3)	Applied Computational Economics
ECON 654	(3)	Research Methods in Economics
ECON 688	(3)	Seminar on Social Statistics
ECON 706	(3)	Selected Topics
ECON 710	(3)	Selected Topics in Economics
ECON 720	(3)	Advanced Game Theory
ECON 721	(3)	Advanced Monetary Theory

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the 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 701	(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 770	(1)	PhD Research Seminar 1
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.

3.12.7 English

3.12.7.1 Location

Department of English
Arts Building
853 Sherbrooke Street West, Room 155
Montreal QC H3A 0G5
Canada
Telephone: 514-398-6564
Email: *gradstudies.englishlit@mcgill.ca*
Website: *www.mcgill.ca/english*

3.12.7.2 About English

The Department of English at McGill is unique, in that its program brings together three different but related areas of study: **Literature**; **Drama and Theatre**; and **Cultural Studies**. Graduate students, key participants in all areas of Department life, have the opportunity to explore aspects of Literature, Cultural Studies, Performance, and Theatre History in their seminar work and research. The Department is home to—or is a principal participant in—a number of major collaborative research projects, including the *Burney Centre*

of McGill M.A. graduates go on to Ph.D. programs either at McGill or elsewhere. Other graduates have found employment with foundations, university development offices, publishing houses, consulting firms, and CEGEPs.

The Ph.D. program admits approximately five students each year from around the world. Doctoral students specialize in a broad range of fields within English studies.

All students who apply are considered for financial support, normally in the form of a scholarship that can be supplemented by Teaching or Research Assistantships.

The Department offers two options toward the M.A. degree; one thesis, and the other non-thesis. Both options consist of 48 credits and are designed to be completed in four terms (of 12 credits each). It is rare for any student pursuing the thesis option to complete the degree in less than two years, although some students do complete the research paper option in one year (Fall, Winter, and Summer terms) or in 16 months (Fall, Winter, Summer, and Fall terms).

section 3.12.7.5: Master of Arts (M.A.) English (Thesis) (48 credits)

In the thesis option, students must successfully complete Graduate Research Seminar (ENGL 694) and five seminars, and write a thesis of 80–100 pages that adheres to the guidelines set under the thesis regulations of Graduate and Postdoctoral Studies. Students submit a proposal for the thesis to the Graduate Administration Committee in the Department; the proposal must be approved before students begin working on the thesis. When completed, the thesis is submitted to the Thesis Office and is reviewed by an External Examiner.

section 3.12.7.6: Master of Arts (M.A.) English (Non-Thesis) (48 credits)

In the non-thesis option, students must successfully complete Graduate Research Seminar (ENGL 694) and seven seminars, and write a research paper of 40 pages. Students submit a proposal for the research paper to the Graduate Administration Committee in the Department; the proposal must be approved before students begin to write the research paper. The finished paper is evaluated by the supervisor and a second member of the Department. Although the Non-Thesis (research paper) M.A. is designed to be completed in two years, some students complete the program in one year (Fall, Winter, and Summer terms) or in 16 months (Fall, Winter, Summer, and Fall terms).

section 3.12.7.7: Doctor of Philosophy (Ph.D.) English

Students with an M.A. in English or a closely related discipline may apply to the Ph.D. program. In their first year (Ph.D. 2), doctoral students are expected to complete the two halves of the compulsory proseminar: ENGL 787 (taken in the Fall term) and ENGL 788 (taken in the Winter term), along with four seminars. The proseminars expose students to current academic issues, theoretical propositions, and professional questions. Students may substitute for the two second-term seminars one with four

3.12.7.3.2.1 Additional Requirements

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

- Writing Sample
- Personal Statement (750–800 words)
- List of Awards and Publications

Associate Professors

S. Carney; B.A.(Manit.) M.A.(Alta.), Ph.D.(York)

T.W. Folkerth; B.A.(CSU Chico), M.A., Ph.D.(McG.)

P. Gibian; B.A.(Yale), M.A.(NYU), Ph.D.(Stan.)

Y. Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.)

D.C. Hensley; B.A., M.A.(Trin. Coll., Cambridge), B.A., Ph.D.(Yale)

M. Hickman; B.A.(Brown), M.A., Ph.D.(Mich.)

B. Kaite; B.A.(C'dia), M.A.(McM.), Ph.D.(Car.)

P. Neilson; B.A.(Bishop's), M.F.A.(Calg.)

D. Nystrom; B.A.(Wisc.), M.A., Ph.D.(Virg., Charlottesville)

A. Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.)

T. Ponech; B.A.(McG.), Ph.D.(N'western)

M. Popescu; B.A., M.A.(Bucharest), M.A.(Windsor), Ph.D.(Penn.)

F. Ritchie; B.A., M.A.(Durh.), Ph.D.(Lond.)

D. Salter; B.A.(Br. Col.), M.A., Ph.D.(Tor.)

N. Schantz; B.A.(Stan.), M.A., Ph.D.(USC)

M.W. Selkirk; B.A.(Alta.), M.F.A.(Ill.)

T. Sparks; B.A.(Bates College), M.A., Ph.D.(Wash.)

A. Thain; B.A.(McG.), Ph.D.(Duke)

M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.)

Assistant Professors

S. Banerjee; B.A., M.A.(Jad.), M.Phil.(Oxf.), Ph.D.(Syrac.)

E. MacLaren; B.A.(Alta.), M.A.(UWO), Ph.D.(Tor.)

M. Nicholson; B.A.(Calif., Berk.), Ph.D.(Calif.-LA)

K. Zien; B.A.(Col.), Ph.D.(N'western)

3.12.7.5 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.

3.12.7.6 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.

3.12.7.7 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 e

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section 3.12.8.6: Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (48 crédits) (48 credits)

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 Déxigences du programme de ma

- Projet de recherche
- Curriculum Vitae (pour être admis au programme de Ph. D.)

3.12.8.3.3 Dates importantes et dates limites

Les dates d'ouverture de dépôt des demandes d'admission sont fixées par La Gestion de l'effectif étudiant en consultation avec Graduate and Postdoctoral Studies (GPS; Les Études supérieures et postdoctorales), tandis que les dates limites pour les demandes d'admission sont fixées par le Département des littératures de langue française, de traduction et de création et peuvent être révisées à tout moment sans préavis. Il est de la responsabilité du candidat de s'informer des dates limites et des documents requis pour soumettre une demande d'admission en consultant *le site* du Département des littératures de langue française, de traduction et de création. On trouvera sur la page suivante la liste des responsables des programmes d'études supérieures : *www.mcgill.ca/gps/contact/graduate-program*.

	Dates d'ouverture des demandes d'admission	**Dates limites**		
	Tous les candidats	**Étudiants étrangers (incl. étudiants à statut particulier, à statut de visiteur et en échange)**	**Étudiants canadiens / résidents permanents du Canada (incl. étudiants à statut particulier, à statut de visiteur et en échange)**	**Étudiants actuels de McGill (toute citoyenneté)**
Automne	Le 15 septembre	Le 15 mars	Le 1er juin*	Le 1er juin
Hiver	Le 15 février	Le 10 septembre	Le 15 octobre	Le 15 octobre
Été	S.O.	S.O.	S.O.	S.O.

** La date limite est le 1er février pour les étudiants qui souhaitent être recommandés pour les bourses.*

L'admission aux études supérieures est sélective. Les dossiers d'admission soumis après la date limite ne seront évalués que si le temps le permet.

Nota : Nous n'examinerons aucune demande d'admission visant le trimestre d'été.

3.12.8.4 Professeurs du Département des littératures de langue française, de traduction et de création

Directeur
P. Brisette

Professeurs agrégés

P. Brissette; M.A.(Montr.), Ph.D.(McG.)

A. Coussy; M.A.(Aix-Marselle), Dr. 3e Cy.(Paris III)

N. Doiron; M.A., Ph.D.(Montr.)

J. Everett; M.A.(Car.), Ph.D.(McG.)

A. Farah; M.A., Ph.D.(UQAM)

G. Lane-Mercier; M.A.(Montp.), Ph.D.(McG.)

C. Leclerc; M.A.(UQAM), Ph.D.(C'dia)

Professeurs adjoints

M. Diouf; M.A.(UCAD), Ph.D.(Laval)

L. Ouellet Tremblay; B.A., M.A., Ph.D.(UQAM)

3.12.8.5 Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire) (48 crédits) (48 credits)

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
		L'e

Maîtrise ès arts (M.A.) Langue et littérature franç

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[illegible],er un réussir urla connaissance n, l plgudre'anglae (FREN 790).uxment êtra dpenlisés(eettun r)Tj/F5 8.1 Tf()Tj/F1 8.1 Tfp(preor)Tj1 0

conduct research in fields as diverse as climate change impacts, periglacial geomorphology, and forest resource history in regions ranging from the Arctic to Africa, Southeast Asia, and Latin America.

Being both a natural and a social science, geography pro

Master of Science (M.Sc.) Programs in Geography

Detailed program requirements for the following M.Sc. programs are found in ***Science > Graduate > Browse Academic Units & Programs > Geography:***

section 15.12.6.5: Master of Science (M.Sc.) Geography (Thesis) (45 credits)

Master's degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.

section 15.12.6.6: Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits)

The Environment option is offered in association with the *McGill School of Environment* (MSE) and is composed of a thesis component; required Geography and Environment courses; and complementary Geography and Environment courses. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or Faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

section 15.12.6.7: Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master's students offered in association with several university departments, the *McGill School of Environment*, and the *Smithsonian Tropical Research Institute* (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Ph.D. Programs in Geography

section 3.12.9.10: Doctor of Philosophy (Ph.D.) Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research, and coursework chosen in collaboration with the student's supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course, and a minimum of two complementary courses.

section 3.12.9.11: Doctor of Philosophy (Ph.D.) Geography: Environment

The Environment option consists of the thesis and comprehensive examination; required courses from Geography and Environment; and complementary courses in Environment or other fields recommended by the research committee and approved by the Environment Option Committee. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the *McGill School of Environment*, in partnership with participating academic units.

section 3.12.9.12: Doctor of Philosophy (Ph.D.) Geography: Gender and Women's Studies

This doctoral option is an interdisciplinary program for students who meet the degree requirements in Geography and who wish to earn 9 credits of approved coursewMc 55for the ronts Tm(chosen inDeta16 their569c9 appforty mterdn)5570.52 1 1ce

3.12.9.3 Geography Admission Requirements and Application Procedures

3.12.9.3.1 Admission Requirements

Professors

P.G. Brown; M.A., Ph.D.(Col.) (*cross appt. with McGill School of Environment*)

O.T. Coomes; M.A.(Tor.), Ph.D.(Wisc. Madison)

T.R. Moore; Ph.D.(Aberd.), F.R.S.C.

W.H. Pollard; M.A.(Guelph), Ph.D.(Ott.)

N.A. Ross; M.A.(Qu.), Ph.D.(McM.)

N.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (*James McGill Professor*)

S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)

G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

Associate Professors

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M. Kalacska; M.Sc., Ph.D.(Alta.)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

B. Lehner; M.Sc.(Freiburg), Ph.D.(Frankfurt)

T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Camb.)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

B. Robinson; B.Sc.(Georgia Tech.), M.Eng., MCP(MIT), Ph.D.(Wisc. Madison)

R. Sengupta; M.Sc., Ph.D.(Ill.) (*joint appt. with McGill School of Environment*)

R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

J. Unruh; M.S.(Wisc. Madison), Ph.D.(Ariz.)

Assistant Professors

Y. le Polain de Waroux; Ph.D.(Louvain)

G. MacDonald; M.Sc., Ph.D.(McG.)

K. Manaugh; Ph.D.(McG.)

G. McKenzie; B.A.(Br. Col.), M.Sc.A.(Melb

Required Courses (3 credits)

GEOG 631	(3)	Methods of Geographical Research

Complementary Courses (12 credits)

12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3.12.9.6 Master of Arts (M.A.) Geography (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Courses (6 credits)

GEOG 631	(3)	Methods of Geographical Research
INTD 657	(3)	Development Studies Seminar

Complementary Courses (9 credits)

9 credits of courses at the 500 level or higher related to geography and international development studies to be chosen in consultation with an adviser. GEOG 696 can count among these complementary credits for students with an appropriate background.

3.12.9.7 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:

Global Environmental Politics

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Courses (3 credits)

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

3.12.9.10 Doctor of Philosophy (Ph.D.) Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student's supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course (3 credits), and a minimum of two complementary courses (6 credits). The Ph.D. in Geography also includes several options.

Thesis

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

Required Courses

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.

3.12.9.11 Doctor of Philosophy (Ph.D.) Geography and Environment

The option consists of the thesis and comprehensive examination, required courses (9 credits) from Geography and Environment and complementary courses (9 credits) 875.864 44e0 0 1 67.52 335.3.the field. Finally

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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.

3.12.10 History and Classical Studies

3.12.10.1 Location

Department of History and Classical Studies
Stephen Leacock Building, 7th floor
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada
Telephone: 514-398-2844
Email: *graduate.history@mcgill.ca*
Websites: History – *www.mcgill.ca/history/graduate*; Classics – *www.mcgill.ca/classics/graduate-studies*

3.12.10.2 About History and Classical Studies

The Department of History and Classical Studies has particular strengths in:

- Canadian history;
- British and European history;
- East Asian history;
- the history of medicine;
- the history of science;

and newer fields such as:

- the history of gender and sexuality;
- the history of the Atlantic and Indian Ocean worlds;
- global history.

The Department offers interdisciplinary options in de

of fields. The McGill History degree carries international prestige and cachet and contributes meaningfully to success on the job market. Careers pursued by our graduates, aside from those who have sought and found places on the faculties of colleges and universities, have included positions in the area of public history at museums and other public institutions, in libraries and archives, in the diplomatic and other branches of the civil service, and in a variety of NGOs.

section 3.12.10.5: Master of Arts (M.A.) History (Thesis) (45 credits)

Students participate in courses and seminars that deepen their understanding of the problems, topics, and issues confronting professional historians. Preparation of a thesis provides an opportunity for the preparation of a sustained project under close supervision.

section 3.12.10.6: Master of Arts (M.A.) History (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross-disciplinary program offered as an option within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This option is for master's students specializing in international development. Students enter through one of the participating departments and must meet the Department of History's M.A. requirements. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

section 3.12.10.7: Master of Arts (M.A.) History (Thesis): European Studies (45 credits)

The European Studies Option (ESO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of History, Political Science, and Sociology, as well as the Faculty of Law. This option is for students interested in combining the approaches of history and political science to European studies, whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their thesis on a topic approved by the specific option's coordinating committee. The M.A. thesis must be on a topic relating to European studies, approved by the ESO coordinating committee.

section 3.12.10.8: Master of Arts (M.A.) History (Thesis): Gender and Women's Studies (45 credits)

This option provides students with cross-disciplinary specialization in feminist, women's, and gender studies. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their thesis on a topic approved by the specific option's coordinating committee. The thesis must be on a topic centrally related to gender and/or women's studies.

section 3.12.10.9: Master of Arts (M.A.) History (Non-Thesis) (45 credits)

Students participate in courses and seminars that deepen their understanding of the problems, topics, and issues confronting professional historians. The seminars, in particular, provide an opportunity to analyze primary sources under close supervision.

section 3.12.10.10: 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 3.12.10.11: Master of Arts (M.A.) History (Non-Thesis): European Studies (45 credits)

The European Studies Option (ESO) is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of History, Political Science, and Sociology, as well as the Faculty of Law. This option is for students interested in combining the approaches of history and political science to European studies, whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their research paper on a topic approved by the ESO coordinating committee.

section 3.12.10.12: Master of Arts (M.A.) History (Non-Thesis): Gender and Women Studies (45 credits)

This option provides students with cross-disciplinary specialization in feminist, women's, and gender studies. Students admitted to this option participate in an interdisciplinary seminar in place of three history seminar credits and write their research paper on a topic approved by the specific option's coordinating committee.

section 3.12.10.13: 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

section 3.12.10.13: Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

in history and a distinctively interdisciplinary perspective. Candidates must have a background in either history (Honours B.A. in History, or equivalent) or a degree in one of the health professions.

section 3.12.10.14: 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**

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

Refer to the Department of History and Classical Studies website for detailed information (*www.mcgill.ca/history/graduate*).

3.12.10.3.3 Application Dates and Deadlines

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

	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 15	Jan. 15	Jan. 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Winter or Summer term admission will not be considered.

3.12.10.4 History and Classical Studies Faculty

Chair

Jason Opal

Directors

Michael P. Fronda – *Undergraduate Program Dir*

Professors

Brian Lewis; B.A., M.A.(Oxf.), A.M., Ph.D.(Harv.)

Faculty Lecturers

Martin Sirois; B.A., M.A.(Montr.), M.A., Ph.D.(Princ.)

Master of Arts (M.A.) History (Thesis) (45 credits)

Complementary Courses (9 credits)

9 credits at the 500 level or higher, selected as follows:

6 credits on European themes and issues;

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial
INTD 657	(3)	Development Studies Seminar

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

6 credits relating to development studies;

9 credits relating to the student's program of study.

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.10.11 Master of Arts (M.A.) History (Non-Thesis): European Studies (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (15 credits)

HIST 659	(3)	Interdisciplinary Seminar in European Studies
HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

6 credits on European themes and issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.10.12 Master of Arts (M.A.) History (Non-Thesis): Gender and Women Studies (45 credits)

Research Project (15 credits)

HIST 687	(9)	M.A. Paper 1
HIST 688	(6)	M.A. Paper 2

Required Courses (15 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

15 credits at the 500 level or higher selected as follows:

3 credits on gender-related issues;

No more than 3 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.10.13 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 (12 credits)

Ph.D. candidates must offer one foreign language for examination purposes. Candidates may need a reading knowledge of such other languages as are required for research purposes in their major field.The Department expects that candidates will have successfully demonstrated competence in the one required language by the end of their Ph.D. 3 year.

3.12.10.15 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 coursew

section 3.12.11.9: Graduate Certificate (Gr. Cert.) Information Architecture and Design (15 credits)

The Graduate Certificate in Information Architecture and Design is designed to equip students and working professionals with specialized training to enrich their current portfolio or to prepare for work in public and private sectors as information architects and information designers. Courses focus on design and assessment of information systems, databases, websites, and interfaces. Techniques for data mining and issues related to information security are also covered. All courses are offered on-site at McGill University. The program may be completed within two academic semesters (Fall/Winter) or to a maximum of three years. Both Fall and Winter entry is offered.

section 3.12.11.10: Graduate Certificate (Gr. Cert.) Information and Knowledge Management (15 credits)

The Graduate Certificate in Information and Knowledge Management program is designed to equip students and working professionals with specialized training to enrich their current portfolio or to prepare for work in the areas of information and knowledge management. Courses focus on the information behaviour of individuals, networks, and organizations; the nature of tacit and explicit knowledge services; and strategies for identifying, capturing, organizing, storing, sharing, and using knowledge. The program may be completed within two academic terms (Fall/Winter) or to a maximum of three years. Both Fall and Winter entry to the program are offered.

section 3.12.11.11: Graduate Certificate (Gr. Cert.) Library and Information Studies (15 credits)

The Graduate Certificate in Library and Information Studies is a post-master's program designed to assist library and information professionals currently holding an American Library Association (ALA)-accredited (or equivalent) master's degree to update their qualifications for advanced responsibility. The program may be completed in one or two academic terms, or on a part-time basis to a maximum of five years.

3.12.11.3 Information Studies Admission Requirements and Application Procedures

3.12.11.3.1 Admission Requirements

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

1. Applicants must have a bachelor's degree from a recognized university. The applicant must present evidence of academic achievement at a minimum standing equivalent to a “McGill” cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a grade point average (GPA) of 3.2 out of 4.0 for the last two full-time academic years if the overall CGPA is 2.8 or higher.

   Note: Courses in library and/or information studies taken before or as part of an undergraduate degree, or such courses taken in a school with a program not accredited by the American Library Association, cannot be accepted as credit toward the McGill M.I.St.

2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language ormation StudiPage

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1. Applicants must have a bachelor's degree from a recognized university. The applicant must present evidence of academic achievement: a minimum standing equivalent to a “McGill” cumulative grade point average (CGPA) of 3.0 out of a possible 4.0 or a grade point average (GPA) of 3.2 out of 4.0 for the last two full-time academic years if the overall CGPA is 2.8 or higher.
2. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English prior to admission. Such proof normally comprises the Test of English as a Foreign Language (*TOEFL*) with a minimum score of 100 on the Internet-based test (iBT; or 600 on the paper-based test [PBT]), with a written score of at least 25 and a reading, speaking, and listening score not less than 20, or the International English Language Testing System (*IELTS*) with a minimum overall band score of 7.5. Applicants whose mother tongue is not English may b4 69wkTj1 0 0 1 314.174 649.3 Tm(sd teode)mostrute dnglish manguage oompetenc

Associate Professors

France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)

Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

Benjamin Fung; B.Sc., M.Sc., Ph.D.(S. Fraser)

Catherine Guastavino; B.Sc.(McG.), M.Sc.(Aix-Marseille), Ph.D.(Paris

GLIS 611	(3)	Research Principles and Analysis
GLIS 612	(3)	History of Books and Printing
GLIS 613	(3)	Library and Archival History
GLIS 614	(3)	Public Libraries
GLIS 615	(3)	Reference & Information Services
GLIS 616	(3)	Information Retrieval
GLIS 620	(3)	Managing Information Organizations
		Usability

Elective Courses (0-12 credits)

0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

Elective courses must be approved by the student's adviser and the Graduate Program Director.

3.12.11.6 Master of Information Studies (M.I.St.) Information Studies (Non-Thesis): Project (48 credits)

The Master of Information Studies; Non-Thesis - Project is a 48-credit program, with a research project component of 18 credits. The program is designed to prepare graduates for the broad field of information studies. It provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; advocates the ideal of equal access to information; promotes the appropriate use of technology221.8d4 Tm1 0 0j1 0 0 1 293.689 630.5ologyon d3.6nfo 1 agse oject is 65 665.3441ae7Oa.ibrary1.874t pro

GLIS 629	(3)	Information Security
GLIS 630	(3)	Data Mining
GLIS 633	(3)	Multimedia Systems
GLIS 634	(3)	Web System Design and Management
GLIS 636	(3)	Government Information
GLIS 637	(3)	Scientific & Technical Information
GLIS 638	(3)	Business Information
GLIS 639	(3)	Introduction to Museology
GLIS 641	(3)	Archival Description and Access
GLIS 642	(3)	Preservation Management
GLIS 644	(3)	Descriptive Bibliography
GLIS 645	(3)	Archival Principles and Practice
GLIS 649	(3)	Digital Curation
GLIS 650	(3)	Digital Libraries
GLIS 651	(3)	Humanities and Social Science Information
GLIS 655	(3)	Language and Information
GLIS 656	(3)	Abstracting and Indexing
GLIS 657	(3)	Database Design & Development
GLIS 660	(3)	Enterprise Content Management
GLIS 661	(3)	Knowledge Management
GLIS 662	(3)	Intellectual Capital
GLIS 663	(3)	Knowledge Taxonomies
GLIS 664	(3)	Knowledge Networks
GLIS 665	(3)	Competitive Intelligence
GLIS 671	(3)	Health Sciences Information
GLIS 672	(3)	Law Information
GLIS 673	(3)	Bioinformatics Resources
GLIS 679	(3)	Information Literacy
GLIS 689	(3)	Selected Topics
GLIS 690	(3)	Information Policy
GLIS 691	(3)	Special Topics 1
GLIS 692	(3)	Special Topics 2
GLIS 699	(3)	Practicum

Elective Courses (0-12 credits)

0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

Elective courses must be approved by the student's adviser and the Graduate Program Director.

3.12.11.7 Doctor of Philosophy (Ph.D.) Information Studies

The Ph.D. program provides an opportunity to study interdisciplinary research topics within the field of library and information studies at the doctoral level. Students develop scholarly and innovative expertise in one of the four research areas within information studies: a) information-seeking behaviour; b) human-computer interaction; c) information resources in context; d) knowledge management and representation, as well as an awareness of the inter-relatedness of these areas. Students begin with a set of common core courses and proceed to specialization through advanced coursework and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members.

GLIS 616	(3)	Information Retrieval
GLIS 626	(3)	Usability Analysis and Assessment
GLIS 627	(3)	User-Centered Design
GLIS 629	(3)	Information Security

0-6 credits of non-GLIS courses with a maximum of 3 credits from outside McGill. All such courses must be at a graduate level and receive prior approval of the student's adviser(s) and the School's Director.

3.12.12 International Development

3.12.12.1 Location

Institute for the Study of International Development (ISID)
Peterson Hall, Room 126
3460 McTavish Street
Montreal QC H3A 0E6
Canada
Telephone: 514-398-3507
Fax: 514-398-8432
Email: *info.isid@mcgill.ca*
Website: *www.mcgill.ca/isid*

Administration

Sonia Laszlo – *Director*

Iain Blair – *Administrative Officer*

Email: *iain.blair@mcgill.ca*

Sherryl Ramsahai – *Administrative Coordinator*

Email: *sherryl.ramsahai@mcgill.ca*

Lisa Stanischewski – *Student Affairs Adviser*

Email: *lisa.stanischewski@mcgill.ca*

Kirsty McKinnon – *Student Affairs Coordinator*

Email: *kirsty.mckinnon@mcgill.ca*

3.12.12.3.2 Application Procedures

Students applying through a participating department must indicate in their application that they want to be considered for the DSO. Final approval on admission to the DSO will be made once the files of successful departmental applicants have been received at ISID.

3.12.12.3.3 Application Dates and Deadlines

The DSO is a cross-disciplinary program. Please see the application deadlines for the master's program in one of the six participating departments:

- *section 3.12.1: Anthropology*
- *section 3.12.6*

- M.A. in Islamic Studies (Thesis) with Option in Gender and Women’s Studies;
- Ph.D. in Islamic Studies;
- Ph.D. in Islamic Studies with Option in Gender and Women’

3.12.13.3.2.1 Additional Requirements

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

- Reference Letters – three letters required for Ph.D. applicants
- Writing Sample – optional for M.A. applicants; required for Ph.D. applicants; a copy of entire master's thesis, or completed chapters of master's thesis, or (in cases where these are not available) two substantial research papers
- Knowledge of Arabic or Persian is an asset, as follows: one year of language training for M.A. applicants; two years for Ph.D. applicants
- Other additional documents and questions, as itemized and explained on the departmental website for Prospective Students at *www.mcgill.ca/islamicstudies/graduate-studies*

3.12.13.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Institute of Islamic Studies and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the *Islamic Studies website*.

Application Opening Dates	Application Deadlines	
	Canadian citizens/Perm. residents of Canada (incl. Special,	**Current McGill Students (any citizenship)**

Assistant Professors

Ahmed Fekry Ibrahim; B.A.(al-Azhar), M.A.(Amer. Univ. Cairo), Ph.D.(G'town)

Pasha M. Khan; B.A.(Tor.), M.A., Ph.D.(Col.) (*Chair in Urdu Language and Culture*)

Senior Faculty Lecturers

Shokry Gohar; B.A.(Cairo), M.A.(C'dia)

Pouneh Shabani-Jadidi; B.A., M.S., Ph.D.(Azad), Ph.D.(Ott.)

Faculty Lecturer

David Nancekivelll; B.A., M.A.(Laval)

3.12.13.5 Master of Arts (M.A.) Islamic Studies (Thesis) (45 credits)

Thesis Courses (24 credits)

ISLA 697	(6)	Thesis Research 1
ISLA 698	(6)	Thesis Research 2
ISLA 699	(12)	Thesis Research 3

Required Course (3 credits)

ISLA 603	(3)	Introductory: Research Materials - Islamic Studies

Complementary Courses (18 credits)

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, and Political Science) can count toward the coursework requirements in the same way as ISLA courses.

With permission of the Institute, up to 6 credits from other departments at McGill or other educational institutions can be used.

3 credit seminar course at the 600 or 700 level.

15 credits of ISLA courses at the 500, 600, or 700 level.

Language Requirement

Students must demonstrate proficiency in Arabic or Persian at the second-year level as evidenced by completion of ISLA 522 or ISLA 542, respectively, or by an examination administered by the Institute.

Note that the courses taken to fulfill the second-year-level requirement will not be credited towards the course requirements.

3.12.13.6 Master of Arts (M.A.) Islamic Studies (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and W

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.

3.12.13.8 Doctor of Philosophy (Ph.D.) Islamic Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Islamic Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

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

Jewish literature (Hebrew, Yiddish, English); and contemporary North American Jewish life. These areas are broadly construed to accommodate the range of research interests in the Department. Students develop close relationships with their supervisors and benefit from the diverse expertise available in our Department and in the University at large.

While the thesis option is designed for students undertaking advanced research in one of the areas above, the non-thesis option offers a generalist degree in Jewish studies.

section 3.12.14.5: Master of Arts (M.A.) Jewish Studies (Thesis) (45 credits)

This option is aimed at students who have acquired a rich background in Jewish studies through their B.A. and who are now ready to focus their study on one period and/or discipline within the broad field of Jewish civilizational studies. Students choosing Eastern European studies, Jewish thought, or Hebrew literature must enter the program with a good command of either Hebrew or Yiddish according to their chosen specialization.

Students may also choose to complete the M.A. (Thesis) program with a stream in the History of the Jewish Interpretation of the Bible. This stream is aimed at students who have acquired a rich background in Bible and Jewish studies through their B.A. and who now wish to study the Bible and its interpretation within Jewish circles at an advanced level. Students choosing this path must enter the program with a good command of Hebrew.

The degree is normally completed within two years. Subsequent career paths are varied, but could include work in Jewish communal agencies, Jewish schools, Jewish foundations, the rabbinate, or further graduate study in a related field.

section 3.12.14.6: Master of Arts (M.A.) Jewish Studies (Non-Thesis) (45 credits)

This option is aimed at students who have acquired some background in Jewish studies through their B.A. and who wish to add to their knowledge without having to concentrate on one period or discipline within the broad field of Jewish civilizational studies. Students may take courses in related disciplines outside of Jewish Studies if appropriate. The degree is normally completed within two years. Students must demonstrate good command of Yiddish or Hebrew prior to graduation. Subsequent career paths are varied, but could include work in Jewish communal agencies, Jewish schools, Jewish foundations, the rabbinate, or further graduate study in a related field.

Ph.D. in Jewish Studies

	Application Opening Dates		Application Deadlines	
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.12.14.4 Jewish Studies Faculty

Chair and Graduate Program Director

Yael Halevi-Wise

Undergraduate Program Director

Eric Caplan

Professors

David Aberbach; B.A.(Univ. Coll., Lond.), M.Litt., Ph.D.(Oxf.)

Carlos Fraenkel; M.A., Ph.D.(Free Univ., Berlin) (*joint appt. with Philosophy*) (*James McGill Professor*)

Gershon Hundert; B.A.(Col.), M.A.(Ohio St.), Ph.D.(Col.) (*Leanor Se*

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)

M.A.

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
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
		T

attention, an atmosphere of collegiality, and a close-knit intellectual community. The candidate for admission must hav

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 abov

Directors of Undergraduate Studies/Advisers

Stephanie Posthumus; B.A.(Calvin), M.A.(Qu.), Ph.D.(UWO) (*European Literature and Culture*)

José R. Jouve-Martín; Lic.Fil.(Autonoma, Madrid), Ph.D.(G'town) (*Hispanic Studies*)

Daniel Schwartz (*German Studies*)

Directors of Graduate Studies

Karin Bauer (

Faculty Lecturers

Anny Guimont; M.A.(Montr.)

Maria Ivanova; M.A.(SPbU), Ph.D.(Moscow St.)

Sun-Young Kim; M.A.(Tor.), Ph.D.(Mich.)

Maria-Teresa Mascaro; M.S.(G'town)

Maria Karleen Morrison; M.A.(Tubingen), Ph.D.(Virg.)

Anna Maria Tumino; M.A.(McG.)

3.12.15.5 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.

3.12.15.6 Master of Arts (M.A.) German (Non-Thesis) (45 credits)

Research Project (18 credits)

GERM 680	(6)	Research Paper 1
GERM 681	(6)	Research Paper 2
GERM 682	(6)	Research Paper 3

Complementary Courses (27 credits)

Nine 3-credit courses chosen from any graduate seminar listed as offered in the Department of German Studies. With the approval of the Graduate Studies Committee, students are permitted to take a maximum of 3 credits in another department.

Doctor of Philosophy (Ph.D

French Language examination or Latin (if specializing in German Literature before 1600).

Original research leading to new insights is a prerequisite for the acceptance of a Ph.D. thesis.

As a rule, it will take a student at least three years after the M.A. degree to complete the requirements for the Ph.D. degree. Students who have not spent an appreciable length of time in a German-speaking country are advised to spend one year at a university in such a country, for which credit may be given in the above program.

3.12.15.8 Master of Arts (M.A.) Hispanic Studies (Thesis) (48 credits)

Thesis Courses

HISP 695	(3)	Thesis Preparation 1
	(3)	Thesis Preparation 2

Complementary Courses (18 credits)

Six 3-credit courses

Language Requirement

Proficiency in Spanish, and, when appropriate, in Portuguese, as well as a functional ability in French and English. A reading knowledge of a fourth language will be determined according to the needs of the candidate's research program.

All courses, comprehensive examinations and language requirements will normally be completed before the dissertation topic is formally approved. A dissertation proposal should be submitted to the Graduate Committee of the Department of Hispanic Studies for approval no later than the end of the second year of full-time doctoral studies.

All general regulations of Graduate and Postdoctoral Studies regarding the Ph.D. degree shall apply.

Required Academic Activities: All candidates preparing their dissertation are required to give an annual formal presentation of their research to the Department, normally beginning in their third year of full-time doctoral studies.

3.12.15.11 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)

Complementary Courses (15 credits)

15 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The courses should cover at least three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Individual Reading Course 1 and ITAL 607 Individual Reading Course 2 offered as tutorials.

Typically, the first year of the program will consist of: Literary Theory course, ITAL 610, three complementary courses, and ITAL 690. The second year will include ITAL 602, ITAL 680, two complementary courses, and ITAL 691.

3.12.15.13 Master of Arts (M.A.) Russian (Thesis) (48 credits)

Thesis Courses (30 credits)

The Thesis Proposal is normally submitted for review by the Department Graduate Committee at the end of the second term of residency. Candidates should consult the Department Thesis Proposal Guidelines.

RUSS 691	(6)	M.A. Thesis Proposal
RUSS 692	(24)	M.A. Thesis

Complementary Courses (18 credits)

12-18 credits of graduate coursework in the Department

0-6 credits of graduate coursework outside the Department, subject to approval by the Department Graduate Committee.

RUSS 600 and RUSS 601 will be added as complementary courses if the Department deems it necessary.

3.12.15.14 Doctor of Philosophy (Ph.D.) Russian

Thesis

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

Required Courses

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
		Pre-Petrine Fwi 41 gak

3.12.16 Linguistics

3.12.16.1 Location

Department of Linguistics
1085 Dr. Penfield Avenue
Montreal QC H3A 1A7
Canada
Telephone: 514-398-4222
Email: *gradprogram.linguistics@mcgill.ca*
Website: *www.mcgill.ca/linguistics*

3.12.16.2 About Linguistics

The aim of the graduate program in Linguistics at McGill is to train researchers in core areas of theoretical linguistics:

- phonetics;
- phonology;
- morphology;
- syntax;
- semantics;
- pragmatics;
- experimental linguistics;
- computational linguistics.

Research in experimental areas deals with theoretical questions in light of evidence from another domain (language acquisition, neurolinguistics, processing, language variation, and change).

Students have access to a rich research landscape in cognitive science; for example, most members of the Department are associated with the *Centre for Research on Brain, Language and Music* (CRBLM). The Department has two labs for conducting experiments, each fitted with a soundproof booth. Members of the Department also have access to other facilities through the CRBLM.

We normally fund all full-time graduate students who maintain strong academic records; our funding package covers living expenses, tuition, and fees. M.A. students are funded for one year and eight months, and Ph.D. students for five years.

section 3.12.16.5: Master of Arts (M.A.) Linguistics (Non-Thesis) (45 credits)

The M.A. (Non-Thesis) involves intensive coursework in year 1, followed by additional coursework and completion of a major research paper in year 2. This program is intended for students who wish to gain coursework and research experience in Linguistics beyond the B.A. level. After completion of the M.A., students may choose to continue on to a Ph.D. or pursue a career in a related field.

section 3.12.16.6: Doctor of Philosophy (Ph.D.) Linguistics

The Ph.D. degree involves intensive coursework in year 1, additional coursework and completion of two e

3.12.16.3.2 Application Procedures

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

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

Applicants are urged to read detailed information on application procedures on the *Department of Linguistics' website*.

3.12.16.3.2.1 Additional Requirements

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

- Research Proposal
- Curriculum Vitae
- Writing Sample

3.12.16.3.3 Application Dates and Deadlines

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

	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 10	Dec. 10	Dec. 10
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.12.16.4 Linguistics Faculty

Chair

L. Alonso-Ovalle

Emeritus Professors

C.D. Ellis; B.A.(Camb. & McG.), M.A.(Tor. & Yale), Ph.D.(McG.)

M. Gopnik; M.A., Ph.D.(Penn.)

M. Paradis; B.A.(Montr.), M.A., Ph.D.(McG.), Ph.D.(Montr.)

G.L. Piggott; B.A.(W.I.), M.A., Ph.D.(Tor.)

L. White; M.A.(Camb.), Ph.D.(McG.) (*J*

Associate Professors

M. Sonderegger; B.S.(MIT), M.S., Ph.D.(Chic.)

M. Wagner; M.A.(Humboldt), Ph.D.(MIT) (*Canada Research Chair*)

Assistant Professors

T. J. O'Donnell; B.A.(Cornell), Ph.D.(Harv.)

F. Torreira; Lic.(Inst. supérieur de traducteurs et interprètes), Cand., Lic.(Univ. Libre de Brux.), M.Phil.(Ill.-Urbana-Champaign), Ph.D.(Radboud)

3.12.16.5 Master of Arts (M.A.) Linguistics (Non-Thesis) (45 credits)

The M.A. in Linguistics; Non-Thesis involves intensive coursework in year 1, followed by additional coursework and completion of a major research paper in year 2. This program is intended for students who wish to gain coursework and research experience in Linguistics beyond the B.A. level. After completion of the M.A., students may choose to continue on to a Ph.D. or pursue a career in a related field.

Research Project (15 credits)

LING 605	(3)	M.A. Research 1
LING 606	(3)	M.A. Research 2
LING 607	(9)	M.A. Research Paper

Required Courses (18 credits)

LING 601	(3)	Graduate Research Seminar 1
LING 602	(3)	Graduate Research Seminar 2
LING 630	(3)	Phonetics 3
LING 631	(3)	Phonology 3
LING 660	(3)	Semantics 3
LING 671	(3)	Syntax 3

Complementary Courses (12 credits)

3 credits from:

LING 635	(3)	Phonetics and Phonology 4
LING 665	(3)	Semantics 4
LING 675	(3)	Syntax 4

6-9 credits in Linguistics at the 500, 600, or 700 level.

0-3 credits in a related field at the 500, 600, or 700 level.

3.12.16.6 Doctor of Philosophy (Ph.D.) Linguistics

Thesis

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

Required Courses (21 credits)

LING 601	(3)	Graduate Research Seminar 1
LING 602	(3)	Graduate Research Seminar 2
LING 630	(3)	Phonetics 3

LING 631	(3)	Phonology 3
LING 635	(3)	Phonetics and Phonology 4
LING 660	(3)	Semantics 3
LING 671	(3)	Syntax 3
LING 706	(0)	Ph.D. Evaluation 1
LING 707	(0)	Ph.D. Evaluation 2

Note: LING 706 and LING 707 must be completed before proceeding to thesis research.

Complementary Courses (15 credits)

3 credits from the following:

LING 665	(3)	Semantics 4
LING 675	(3)	Syntax 4

6 credits from the following:

LING 610	(3)	Linguistic Field Research
LING 620	(3)	Experimental Linguistics: Methods
LING 661	(3)	Advanced Formal Methods

6 additional credits at the 500, 600, or 700 level. At least one in the student's intended research area.

3.12.16.7 Doctor of Philosophy (Ph.D.) Linguistics: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Linguistics. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

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

Required Courses (27 credits)

LING 601	(3)	Graduate Research Seminar 1
LING 602	(3)	Graduate Research Seminar 2
LING 630	(3)	Phonetics 3
LING 631	(3)	Phonology 3
LING 635	(3)	Phonetics and Phonology 4
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 (18 credits)

3 credits of statistics from the following list

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
LING 620	(3)	Experimental Linguistics: Methods
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

3 credits from the following:

LING 665	(3)	Semantics 4
LING 675	(3)	Syntax 4

6 credits from the following methods courses:

LING 610	(3)	Linguistic Field Research
LING 620	(3)	Experimental Linguistics: Methods
LING 661	(3)	Advanced Formal Methods

If LING 620 is taken to satisfy both the Statistics and the Methods complementary requirements, then 3 additional credits should be taken at the 500, 600, or 700 level.

6 additional credits at the 500, 600, or 700 level, at least 3 credits selected from the following list:

EDSL 620	(3)	Social Justice Issues in Second Language Education
EDSL 623	(3)	Second Language Learning
EDSL 624	(3)	Educational Sociolinguistics
EDSL 627	(3)	Instructed Second Language Acquisition Research
EDSL 629	(3)	Second Language Assessment
EDSL 632	(3)	Second Language Literacy Development
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown
LING 651	(3)	Topics in Acquisition of Phonology
LING 655	(3)	Theory of L2 Acquisition
LING 751	(3)	Advanced Seminar: Experimental 1
LING 752	(3)	Advanced Seminar: Experimental 2
PSYC 545	(3)	Topics in Language Acquisition
PSYC 735	(3)	Developmental Psychology and Language
SCSD 619	(3)	Phonological Development
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Development
SCSD 637	(3)	Developmental Language Disorders 1
SCSD 643	(3)	Developmental Language Disorders 2
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2

0-2 credits from the following:

EDSL 711	(2)	Language Acquisition Issues 3

3.12.17 Mathematics and Statistics

3.12.17.1 Location

Department of Mathematics and Statistics
Burnside Hall, Room 1005
805 Sherbrooke Street West

section 3.12.17.6: Master of Arts (M.A.) Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the

Emeritus Professors

Sherwin Maslowe; B.Sc.(Wayne St.), M.Sc., Ph.D.(Calif.)

Arak M. Mathai; M.Sc.(Kerala), M.A., Ph.D.(Tor.)

Karl Peter Russell; Vor.Dip.(Hamburg), Ph.D.(Calif.)

Georg Schmidt; B.Sc.(Natal), M.Sc.(S. Af.), Ph.D.(Stan.)

Vanamamalai Seshadri; B.Sc, M.Sc.(Madr.), Ph.D.(Okl.)

George P.H. Styan; M.A., Ph.D.(Col.)

Kwok Kuen Tam; M.A., Ph.D.(Tor.)

John C. Taylor; B.Sc.(Acad.), M.A.(Qu.), Ph.D.(McM.)

Jian-Jun Xu; B.Sc., M.Sc.(Beijing), M.Sc., Ph.D.(Rensselaer Poly.)

Sanjo Zlobec; M.Sc.(Zagreb), Ph.D.(N'western)

Professors

Masoud Asgharian; B.Sc.(Shahid Beheshti), M.Sc., Ph.D.(McG.)

Peter Bartello; B.Sc.(Tor.), M.Sc., Ph.D.(McG.) (*joint appt. with Atmospheric and Oceanic Sciences*)

Rustum Choksi; B.Sc.(Tor.), M.Sc., Ph.D.(Brown)

Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. (*James McGill Professor*)

Stephen W. Drury; M.A., Ph.D.(Cant.)

Christian Genest; B.Sp.Sc.(UQAC), M.Sc.(UQAM), Ph.D.(Br. Col.) (*Canada Research Chair*)

Eyal Z. Goren; B.A., M.S., Ph.D.(Hebrew)

Pengfei Guan; B.Sc.(Zhejiang), M.Sc., Ph.D.(Princ.) (*Canada Research Chair*)

Jacques C. Hurtubise; B.Sc.(Montr.), D.Phil.(Oxf.) F.R.S.C.

Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (*Peter Redpath Professor*)

Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Calif. Tech.)

Niky Kamran; B.Sc., M.Sc.(Bruxelles), Ph.D.(Wat.), F.R.S.C. (*James McGill Professor*)

Adam Oberman; B.S.(Tor.), M.S., Ph.D.(Chic.)

Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)

David A. Stephens; B.Sc., Ph.D.(Nott.)

John A. Toth; B.Sc., M.Sc.(McM.), Ph.D.(MIT)

Adrian Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT) (*joint appt. with Computer Science*)

Daniel T. Wise; B.A.(Yeshiva), Ph.D.(Princ.) (*James McGill Professor*)

David Wolfson; B.Sc., M.Sc.(Natal), Ph.D.(Purd.)

Associate Professors

Louigi Addario-Berry; B.Sc., M.Sc., Ph.D.(McG.)

Antony R. Humphries; B.A., M.A.(Camb.), Ph.D.(Bath)

Abbas Khalili; B.S., M.S.(Isfahan Univ. of Tech), Ph.D.(Wat.)

Jean-Philippe Lessard; B.Sc.(Sher.), M.Sc.(Montr.), Ph.D.(Georgia Tech.)

Jean-Christophe Nave; B.Sc., Ph.D.(Calif., Santa Barbara)

Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)

Sergey Norin; M.S.(Saint Petersburg St.), Ph.D.(Georgia Tech.)

Mikael Pichot; B.Sc.(Lyon), M.S., Ph.D.(ENS Lyon)

Russell Steele; B.S., M.S.(Carn. Mell), Ph.D.(Wash.)

Gantumur Tsogtgerel; B.Sc.(Nat. Univ. Mongolia), M.Sc., Ph.D.(Utrecht)

Assistant Professors

Linan Chen; B.S.(Tsinghua), Ph.D.(MIT)

Sarah Harrison; B.Sc.(MIT), Ph.D.(Stan.) (*joint appt. with Physics*), (*Canada Research Chair*)

Tim Hoheisel; Dipl., Ph.D.(Wurzburg)

Jessica Lin; B.A.(NYU), Ph.D.(Chic.)

Michael Lipnowski; B.Sc. (Waterloo), Ph.D. (Stanford)

Piotr Przytycki; M.Sc., Ph.D.(Warsaw)

Brent Pym; B.ScE (Queens), M.Sc., Ph.D. (Toronto)

Marcin Sabok; M.Sc., Ph.D.(Warsaw)

Jérôme Vétois; Ph.D.(Cergy-Pontoise)

Yi Yang; B.S.(Sichuan), M.S., Ph.D.(Minn.)

Associate Members

Xiao-Wen Chang (*Computer Science*)

Pierre R.L. Dutilleul (*Plant Science*)

Leon Glass (*Physiology*)

James A. Hanley (*Epidemiology and Biostatistics*)

Hamed Hatami (*Computer Science*)

Lawrence Joseph (*Epidemiology and Biostatistics*)

Anmar Khadra (*Physiology*)

Michael Mackey (*Physiology*)

Erica E.M. Moodie (*Epidemiology and Biostatistics*)

Prakash Panangaden (*Computer Science*)

Robert W. Platt (*Epidemiology and Biostatistics*)

James O. Ramsay (*Psychology*)

Alexandra Schmidt (*Epidemiology and Biostatistics*)

Kaleem Siddiqi (*Computer Science*)

Christina Wolfson (*Epidemiology and Biostatistics*)

Adjunct Professors

Renato C. Calleja; B.S.(Tec. Autonomo de Mexico), Ph.D.(Texas-Austin)

Vasek Chvatal; Ph.D.(Wat.)

Eliot Freid; B.S.(Calif. Poly. St.), M.S., Ph.D.(Calif. Tech.)

Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)

Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)

Dimitris Koukoulopoulos; M.Sc., Ph.D.(Ill.-Chic.)

Xin Yang Lu; B.Sc., M.Sc., Ph.D.(Pisa)

Etienne Marceau; B.Sc., M.Sc.(Laval); Ph.D.(Louvain)

Ming Mei; B.Sc., M.Sc.(Jiangxi Normal Uni.), Ph.D.(Kanazawa)

M. Ram Murty; B.Sc.(Car.), Ph.D.(MIT), F.R.S.C.

Claude-Alain Pillet; M.Sc., Ph.D.(ETH Zurich)

Iosif Polterovich; M.Sc.(Moscow St.), Ph.D.(Weizmann Inst.)

F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.)

Armen Shirikyan; M.Sc., Ph.D.(Moscow St.); Habilitation(Paris-Sud XI)

The Department offers assistance to students in every aspect of placement. Our Placement Officer counsels students about coursework and areas of competence, helps to establish evidence of teaching ability, administers the dossier for job applications, and provides advice and follow-up in the interview process. Many of our graduates have gone on to do postdoctoral research and over 80% are now in tenure track or sessional appointments.

The Department offers courses of study leading to the **Ph.D.** in Philosophy. It also offers, in conjunction with the Biomedical Ethics Unit, a course of study leading to the **M.A.** degree in Bioethics.

Ph.D. Program

By December 15 of their third year in the program (Ph.D. 3) for students admitted at Ph.D. 1 and August 15 in their second year in the program (Ph.D. 3) for students admitted at Ph.D. 2, students must submit a research paper (the “candidacy paper” [3 credits]), which may be worked up from a paper written to 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)**

1. A general knowledge of the history of Western philosophy: Greek, Medieval, Modern;
2. A systematic knowledge of the main philosophical disciplines in their contemporary as well as historical contexts: logic, ethics, epistemology, and metaphysics;
3. An ability to present, in written form, clear and substantial reconstructions and analyses of the materials normally studied in the areas mentioned in (1) and (2).

To demonstrate their competence in these areas, applicants must submit transcripts of academic work, three letters of recommendation from persons with whom they have studied, and at least one substantial example (approximately 15–20 typewritten pages) of their written philosophical work.

In addition, applicants from North America whose first language is English are strongly encouraged to submit scores of the *Graduate Record Examination* (GRE). Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English (*TOEFL* score).

Students who hold an M.A. degree from another institution should apply for admission to the Ph.D. 2 level.

M.A. (Bioethics)

Students applying to the Bioethics Specialty program must write an M.A. thesis proposal. All applications to this program must also receive the approval of the Director of the Specialty program. Students who apply for this program should note that they must participate in a practicum, which continues beyond the end of their second term of classes.

3.12.18.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate*

3.12.18.5 Master of Arts (M.A.) Philosophy (Thesis): Bioethics (45 credits)

Thesis Courses (24 credits)

BIOE 690	(3)	M.Sc. Thesis Literature Survey
BIOE 691	(3)	M.Sc. Thesis Research Proposal
BIOE 692	(6)	M.Sc. Thesis Research Progress Report
BIOE 693	(12)	M.Sc. Thesis

Required Courses (9 credits)

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum
PHIL 643	(3)	Seminar: Medical Ethics

Complementary Courses (12 credits)

12 credits are to be taken in any graduate courses required or accepted by the Department of Philosophy for the granting of a master's degree.

3.12.18.6 Doctor of Philosophy (Ph.D.) Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, org

PHIL 644	(3)	Political Theory
PHIL 648	(3)	Seminar: Philosophy of Law

and/or any other course at the 500, 600 or 700 lev

Minimum of two courses from the following:

PHIL 651	(3)	Seminar: Ancient Philosophy 2
PHIL 656	(3)	Medieval Philosophy
PHIL 661	(3)	Seminar: 18th Century Philosophy
PHIL 667	(3)	Seminar: 19th Century Philosophy
PHIL 675	(3)	Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 643	(3)	Seminar: Medical Ethics
PHIL 644	(3)	Political Theory
PHIL 648	(3)	Seminar: Philosophy of Law

and/or any other course at the 500 level or higher in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 606	(3)	Seminar: Philosophy of Mind
PHIL 610	(3)	Seminar on Advanced Logic 2
PHIL 611	(3)	Seminar: Philosophy of Logic and Mathematics
PHIL 615	(3)	Seminar: Philosophy of Language
PHIL 619	(3)	Seminar: Epistemology
PHIL 621	(3)	Seminar: Metaphysics
PHIL 670	(3)	Seminar: Contemporary Analytic Philosophy

and/or any other course at the 500, 600, or 700 level in Metaphysics and Epistemology recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

One course chosen from the following:

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

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

The remaining course(s) must be at the 500, 600, or 700 level and are to be chosen in consultation with the student's advisory committee.

Language Requirement

One research language at the advanced level or two research languages at the intermediate level.

3.12.18.8 Doctor of Philosophy (Ph.D.) Philosophy: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Philosophy who wish to earn 9 additional credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

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

Required Courses (24 credits)

PHIL 607	(6)	Pro-Seminar 1
PHIL 682	(6)	Pro-Seminar 3
PHIL 685	(3)	Fundamentals of Logic
PHIL 690	(3)	Candidacy Paper
WMST 601	(3)	Feminist Theories and Methods
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 651	(3)	Seminar: Ancient Philosophy 2
PHIL 656	(3)	Medieval Philosophy
PHIL 661	(3)	Seminar: 18th Century Philosophy
PHIL 667	(3)	Seminar: 19th Century Philosophy
PHIL 675	(3)	Seminar: Contemporary European Philosophy

and/or any other course at the 500, 600, or 700 level in the History of Philosophy recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 642	(3)	Seminar: Feminist Theory
PHIL 643	(3)	Seminar: Medical Ethics
PHIL 644	(3)	Political Theory
PHIL 648	(3)	Seminar: Philosophy of Law

and/or any other course at the 500, 600, or 700 level in Value Theory recommended/accepted by the student's advisory committee. Depending on the topics covered, PHIL 607 and PHIL 682 may count toward the area requirements.

Minimum of two courses from the following:

PHIL 606	(3)	Seminar: Philosophy of Mind
PHIL 610	(3)	Seminar on Advanced Logic 2
PHIL 611	(3)	Seminar: Philosophy of Logic and Mathematics

PHIL 615 (3) Seminar: Philosophy of Language

- Identity Politics.

For a full list of our affiliated research centres and institutes, please consult our website: *www.mcgill.ca/politicalscience/about-us/centres*.

Changes may take place after this content is published. Students are advised to contact the Department Office for supplementary information, which may be important to their choice of program.

Master's Programs

Students may select a program with the Thesis or the Non-Thesis (Research Project) option in completing M.A. degree requirements. They may switch from one option to the other while completing their coursework.

section 3.12.19.5: Master of Arts (M.A.) Political Science (Thesis) (45 credits)

The M.A. program is generally recognized as among the most demanding and rewarding in Canada. A main purpose of the M.A. degree is to demonstrate an ability to design and execute with competence a major piece of research, comparable to a full length article in a scholarly journal. The length will vary with the nature of the topic. A thesis that contains considerable data analysis might be well developed in 50 pages, while an institutional or historical study would generally be longer.

section 3.12.19.6: Master of Arts (M.A.) Political Science (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross disciplinary M.A. program offered within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students take an interdisciplinary seminar (INTD 657 Development Studies Seminar) that will be co taught by professors from two different disciplines and a variety of graduate-level courses on international development issues. The M.A. thesis must be on a topic relating to development studies, approved by the DSO Coordinating Committee.

Students interested in development will benefit from the expertise provided by the Institute for the Study of International Development. For more information on the Institute, see *www.mcgill.ca/isid/teaching-programs/graduate/development-studies*.

section 3.12.19.7: Master of Arts (M.A.) Political Science (Thesis): European Studies (45 credits)

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students will take an interdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. Students enter through one of the participating departments and must meet the requirements of that unit. The M.A. thesis must be on a topic relating to European Studies, as approved by the ESO coordinating committee. Knowledge of French, while not a prerequisite, is an important asset for admission and will be encouraged as part of the program, as will knowledge of a third European language.

section 3.12.19.8: Master of Arts (M.A.) Political Science (Non-Thesis) (45 credits)

The M.A. program is generally recognized as among the most demanding and rewarding in Canada. Students in the non-thesis program will submit a research essay. The research essay will normally be based on a paper written for a graduate seminar or an independent reading course. The research essay requirement also applies to each of the non-thesis options listed below.

section 3.12.19.9: Master of Arts (M.A.) Political Science (Non-Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross disciplinary M.A. program offered within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students take an interdisciplinary seminar that will be co taught by professors from two different disciplines (INTD 657 Development Studies Seminar) and a variety of graduate-level courses on international development issues.

Students interested in development will benefit from the expertise provided by the Institute for the Study of International Development. For more information on the Institute, see *www.mcgill.ca/isid/teaching-programs/graduate/development-studies*.

section 3.12.19.10: Master of Arts (M.A.) Political Science (Non-Thesis): European Studies (45 credits)

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students enter through one of the participating departments and must meet the requirements of that unit. Students will take an interdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. Knowledge of French, while not a prerequisite, is an important asset for admission and will be encouraged as part of the program, as will knowledge of a third European language.

section 3.12.19.11: Master of Arts (M.A.) Political Science (Non-Thesis): Gender and Women's Studies (45 credits)

The Gender and Women’s Studies Option offers McGill graduate students who meet the degree requirements in a participating unit and who wish to earn 6 credits of approved coursework, a cross disciplinary specialization in feminist, and gender and/or women’s studies, deploying a wide array of disciplinary

section 3.12.19.11: Master of Arts (M.A.) Political Science (Non-Thesis): Gender and Women's Studies (45 credits)

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 3.12.19.12: Master of Arts (M.A.) Political Science (Non-Thesis): Social Statistics (45 credits)

This program is currently not offered.

The Social Statistics Option complements disciplinary training with research experience applying statistical methods to Statistics Canada data or equivalent. Students complete course requirements, supplemented by further statistical courses, as advised by the Option Adviser, and subject to approval by the Department, and a statistics based M.A. research paper in conjunction with an interdisciplinary capstone seminar. See *www.mcgill.ca/socialstatistics*. Entrance to this option is by application to the Social Statistics Option Committee subsequent to acceptance into the Departmental program.

A research paper is required to demonstrate proficiency in research. It is normally about 50 pages in length and involves revision of a paper written for one of the graduate courses completed in the program. The research paper is evaluated by two b71 0 0 1c.126.847 587.78 cultyticmbersleted in the Depar.()3g/F1 8.1 T

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

3.12.19.3.2.1 Additional Requirements

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

- Research Statement – maximum one (1) page single-spaced, a concise academic statement
- Writing Sample – Ph.D. only
- GRE – required for applications to the Ph.D.

3.12.19.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 15	Jan. 15	Jan. 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Completed applications (including *all* supporting documentation listed above) for all graduate programs in Political Science **must be received by January 15**. For detailed information, please see the Graduate Applicant Checklist at *www.mcgill.ca/politicalscience/grad/gradformsdocs*.

3.12.19.4 Political Science Faculty

Chair

Juliet Johnson

Director of Graduate Program

Maria Popova

Emeritus Professor

Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)

Professors

Daniel Béland; B.A.(UQAM), M.A.(UQAM), Ph.D.(École des Hautes Études en Sciences Sociales.(Paris)

Éric Bélanger; B.A., M.A.(Laval), Ph.D.(Montr.)

Mark R. Brawley; B.A.(Calif.), M.A., Ph.D.(Calif.-LA)

Michael Brecher; B.A.(McG.), M.A., Ph.D.(Yale), F.R.S.C. (*R.B. Angus Professor of Economics and Political Science*)

Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)

Elisabeth Gidengil; B.A.(LSE), M.A.(NYU), Ph.D.(McG.) (*Hiram Mills Chair*)

Juliet Johnson; B.A.(Stan.), M.A., Ph.D.(Princ.)

Jacob Levy; A.B.(Brown), M.A., Ph.D.(Princ.) (*Tomlinson University Chair*)

Antonia Maioni; M.A.(Car.), Ph.D.(N'western)

Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)

Philip D. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.)

T.V. Paul; B.A.(Kerala), M.Phil.(J. Nehru U.), M.A., Ph.D.(Calif.-LA) (*James McGill Professor*)

Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*William Dawson Scholar*)

POLI 694	(3)	Research Preparation 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612	(3)	Research Methods in Political Science

or a more suitable advanced course at the 500 level or higher.

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

12-15 credits of 500- or 600-level courses as determined by the student's area of study.

POLI 617	(3)	Problems in Political Theory

9-12 credits of 500- or 600-level courses. A course list is available from the Department.

Of the 15 credits of complementary courses, up to 3 credits at the 500 level or higher may be taken from outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.19.7 Master of Arts (M.A.) Political Science (Thesis): European Studies (45 credits)

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students take an interdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. They write an M.A. thesis on a topic relating to European Studies, approved by the ESO Coordinating Committee

Thesis Courses (24 credits)

POLI 697	(12)	M.A. Thesis Proposal
POLI 698	(12)	Master's Thesis Submission

Required Courses (6 credits)

POLI 659	(3)	Interdisciplinary Seminar in European Studies
POLI 694	(3)	Research Preparation 1

Complementary Courses (15 credits)

3-6 credits, either of the following 3-credit options, or preferably both:

POLI 612	(3)	Research Methods in Political Science

or a more suitable 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

6-9 credits at the 500, 600, or 700 level in courses in political science. A course list is available from the Department.

Of the 15 credits of complementary courses, up to 3 credits at the 500 level or higher may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.19.8 Master of Arts (M.A.) Political Science (Non-Thesis) (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Course (6 credits)

POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (21 credits)

3-6 credits, either of the following 3-credit options, or preferably, both:

POLI 612	(3)	Research Methods in Political Science

or a suitable more advanced course.

One of the following courses:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

15-18 credits of 500- or 600-level courses; up to 6 credits may be outside the Department.

3.12.19.9 Master of Arts (M.A.) Political Science (Non-Thesis): Development Studies (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Courses (9 credits)

INTD 657	(3)	Development Studies Seminar

POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612	(3)	Research Methods in Political Science

or a suitable more advanced 500- or 600-level course.

One of the following courses:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

12-15 credits of additional 500- or 600-level courses related to international development studies. Course list is available from the Department.

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program in international development studies approved by the Department.

3.12.19.10 Master of Arts (M.A.) Political Science (Non-Thesis): European Studies (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Courses (9 credits)

POLI 659	(3)	Interdisciplinary Seminar in European Studies
POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options or, preferably, both:

POLI 612	(3)	Research Methods in Political Science

or a suitable more advanced 500- or 600-level course

or one of the following courses:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis

POLI 617	(3)	Problems in Political Theory

6-9 credits from the following group of courses on European Politics:

POLI 619	(3)	Immigrants / Refugees / Minorities
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.

3.12.19.11 Master of Arts (M.A.) Political Science (Non-Thesis): Gender and Women's Studies (45 credits)

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Courses (9 credits)

POLI 691	(6)	Bibliographic Methods 1
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (18 credits)

3-6 credits, either of the following 3-credit options, or preferably, both:

POLI 612	(3)	Research Methods in Political Science

or a suitable more advanced course at the graduate level.

or one of the following courses:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

9-12 credits at the 500- or 600-level as determined by the student's area of study.

3 additional credits in gender/women's studies, either:

WMST 602	(3)	Feminist Research Symposium

or another approved course on gender/women's studies.

Note: Should the "other" approved gender/women's studies course be taken in the Department of Political Science, the student is eligible to take a 500- or 600-level course as determined by the student's area of study outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.19.12 Master of Arts (M.A.) Political Science (Non-Thesis): Social Statistics (45 credits)

This program is currently not offered.

Research Project (18 credits)

POLI 693	(3)	M.A. Research Proposal
POLI 694	(3)	Research Preparation 1
POLI 695	(3)	Research Preparation 2
POLI 696	(3)	Research Preparation 3
POLI 699	(6)	Master's Research Essay

Required Course (6 credits)

POLI 691	(6)	Bibliographic Methods 1

Complementary Courses (21 credits)

3 credits chosen from the following:

ECON 688	(3)	Seminar on Social Statistics
POLI 688	(3)	Seminar on Social Statistics

3-6 credits, either of the following 3-credit options, or preferably both:

POLI 612	(3)	Research Methods in Political Science

or a suitable more advanced course.

One of the following:

POLI 561	(3)	Seminar: Political Theory
POLI 613	(3)	Selected Themes: Political Theory
POLI 614	(3)	Classical Political Thought
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

12-15 credits of 500- or 600-level POLI courses; up to 6 credits in related disciplines may be allo

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

or another suitable Advanced Methods course.

Additional Courses: 3 courses

Three additional courses of which at least one must be outside the student's major fields.

Advanced Research Tools

Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language to 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.

3.12.19.14 Doctor of Philosophy (Ph.D.) Political Science: Gender and Women's Studies

Thesis

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

Required Courses (6 credits)

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 Methods in Political Science

Gender Courses

3 credits at the 500 level or higher from the list of complementary courses offered by the graduate option in Gender and Women's Studies.

Advanced Research Tools

Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language to fulfil this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Statistical Methods: To fulfil this requirement, students must complete a course (at the 500 level or higher) in advanced statistical methods.

3.12.20 Psychology

3.12.20.1 Location

Department of Psychology
2001 McGill College Avenue, 7th Floor
Montreal QC H3A 1G1
Canada
Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: *gradsec@ego.psych.mcgill.ca*
Website: *www.mcgill.ca/psychology*

About Psyc

section 15.12.9.9: Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology

The Department of Oncology, in conjunction with the Ingram School of Nursing, the Department of Psychology, and the School of Social Work, has developed the cross-disciplinary Psychosocial Oncology Option (PSOO). This option is open to doctoral students in the Ingram School of Nursing and in the Department of Psychology who are interested in broadening their knowledge of psychosocial issues in oncology.

3.12.20.3 Psychology Admission Requirements and Application Procedures

3.12.20.3.1 Admission Requirements

Admission to the graduate program depends on an evaluation of students' research interests and their aptitude for original contributions to knowledge and, if applicable, for professional contributions in the applied field.

The usual requirement for admission is an Honours or majors degree (B.A. or B.Sc.) in Psychology. This usually includes an introductory course plus twelve courses in psychology (each equivalent to three term hours). Courses in experimental psychology, the theoretical development of modern ideas in psychology, and statistical methods as applied to psychological problems (equivalent to an introductory course) are essential. Applicants' knowledge of relevant biological, physical, and social sciences is considered. Students applying to the clinical program are advised to complete 42 specific undergraduate credits in psychology as specified by the *Order of Psychologists of Quebec* (*Ordre des psychologues du Québec*).

Applicants who hold a bachelor's degree but who have not met these usual requirements should consult the Graduate Program Director to determine which (if any) courses must be completed before an application can be considered. Students with insufficient preparation for graduate work may register as Special Students (undergraduate level) in the Faculty of Arts or the Faculty of Science, and follow an appropriate course of study. Such registration requires the permission of the Department but carries no advantage with respect to a student's eventual admission to graduate studies.

Applicants should note that the deadline for many scholarships and fellowships is about four months earlier than the application deadlines and that applications for scholarships and fellowships should be submitted through their home university.

All applicants must take the *GRE* General Test if they have studied in an English-speaking university. For those who have a psychology background, it is recommended to take the Subject component of the GRE. Applicants with little or no background in psychology are not required to submit scores on the Subject component of the GRE. Canadians who have not studied in an English-speaking university are not required to submit the GRE General Test and Subject component.

Note: Official transcripts need not be included as part of an application; they will only be requested once applicants are formally accepted into the program.

3.12.20.3.2 Application Procedures

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

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

3.12.20.3.2.1 Additional Requirements

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

- Three letters of reference
- Personal Statement
- Curriculum Vitae
- Application Summary Sheet
- Graduate Record Examination (GRE) – See above for details.

For further details about these additional requirements, consult the Department of Psychology's *website*.

3.12.20.3.3 Application Dates and Deadlines

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

	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 1	Dec. 1	Dec. 1
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

3.12.20.4 Psychology Faculty

Chair

J. Lydon

Graduate Program Director

D. Titone

Clinical Program Director

B. Ditto

Undergraduate Program Director

G. O'Driscoll

Emeritus Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

A.S. Bregman; B.A., M.A.(Tor.), Ph.D.(Yale)

D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(Cornell)

K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)

F.H. Genesee; B.A.(UWO), M.A., Ph.D.(McG.)

D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)

A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)

R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) (*E.P. Taylor Emeritus Professor of Psychology*)

D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)

Y. Oshima-Takane; B.A.(Tokyo Women’s Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)

J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)

B. Sherwin; B.A., M.A., Ph.D.(C'dia) (*Canada Research Chair in Hormones, Brain and Cognition*)

Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)

D.M. Taylor; M.A., Ph.D.(W. Ont.)

N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

Retired

Andrew G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)

M.J. Mendelson; B.Sc.(McG.), M.A., Ph.D.(Harv.)

Professors

M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)

I.M. Binik; B.A.(NYU), M.A., Ph.D.(Penn.)

B. Ditto; B.S.(Iowa), Ph.D.(Ind.)

H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)

B. Knäuper; D.Phil.(Mannheim)

R. Koestner; B.A., Ph.D.(Roch.)

J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)

J. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (*E.P. Taylor Professor of Psychology*) (*Canada Research Chair in Genetics of Pain*)

K. Nader; B.Sc., Ph.D.(Tor.) (*James McGill Professor*)

Professors

D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

C. Palmer; B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(Cornell) (*Canada Research Chair in Cognitive Neuropsychology Performance*)

M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)

T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)

M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia)

D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton)

D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

Associate Professors

J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)

M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)

G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) (*William Dawson Scholar*)

K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)

J. Ristic; B.A., M.A., Ph.D.(Br. Col.) (*William Dawson Scholar*)

Assistant Professors

R. Bagot; B.Sc.(S. Wales), Ph.D.(McG.)

J. Britt; B.A.(Colo.), Ph.D(Balt.)

C. Falk; B.Sc.(Wisc.), M.A., Ph.D.(Br. Col)

J. Flake; B.Sc.(NKU), M.A.(JMU), Ph.D.(Conn.)

O. Hardt; B.Sc., M.Sc.(Trier), Ph.D.(Ariz.)

E. Hehman; B.A.(Mass.), Ph.D.(Delaware)

L. Human; B.A., M.A., Ph.D.(Br. Col.)

R. Otto; B.Sc.(Calif.-LA), Ph.D.(Texas-Austin)

S. Racine; B.Sc.(McG.), M.A., Ph.D.(Mich. St.)

M. Roy; B.Sc., Ph.D.(Montr,)

S. Sheldon; B.Sc.(Alta.), M.A., Ph.D.(Tor.)

D. Vachon; B.Sc.(Tor.), M.Sc., Ph.D.(Purd.)

A. Weinberg; B.A.(Wesl.), M.A., Ph.D.(SUNY, Stony Brook) (*Canada Research Chair*)

Lecturer

P. Carvajal

Professionals

Rhonda Amsel; B.Sc., M.Sc.(McG.) (*Associate*)

Ian F. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (*Assistant*)

Judith LeGallais; B.A., M.A., Ph.D.(McG.) (*Faculty Lecturer*)

James MacDougall; M.Sc. (Associate Post-Retirement)

Jennifer Russell; B.A., Ph.D.(McG.) (*Assistant*)

Associate Members

Anesthesia: T. Coderre

Douglas Mental Health University Institute Research Centre: S. King, N. Rajah, H. Steiger

Educational Counselling Psychology: V Talwar Jewish General Hospital: B Thombs, P. Zelkowitz

McGill Vision Research Centre: C. Baker, R. Hess, F.A.A. Kingdom, K. Mullen

Associate Members

Montreal Neurological Institute and Hospital: J. Armony, L.K. Fellows, D. Guitton, M. Jones-Gotman, M. Lepage, B. Milner, E. Ruthazer, W. Sossin, R.N. Spring, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, F. Elgar, M. Leyton

Adjunct Professors

P. Delisle, S. Harnad, D.J. Levitin, P. Zelazo

3.12.20.5 Master of Arts (M.A.) Psychology (Thesis) (45 credits)

M.A. and M.Sc. degrees may be awarded in Experimental Psychology, but only as a stage in the Ph.D. program. There is no M.A. or M.Sc. program in Clinical Psychology.

Thesis Courses (27 credits)

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

3.12.20.6 Doctor of Philosophy (Ph.D.) Psychology

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a variety of specialized courses, which include practicum and internship experiences.

Thesis

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

Required Course

PSYC 701	(0)	Doctoral Comprehensive Examination

Complementary Courses

12-24 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

PSYC 710	(3)	Comparative and Physiological Psychology 1
PSYC 711	(3)	Comparative and Physiological Psychology 2
PSYC 712	(3)	Comparative and Physiological Psychology 3
PSYC 713	(3)	Comparative and Physiological Psychology 4

PSYC 714	(3)	Comparative and Physiological Psychology 5
PSYC 715	(3)	Comparative and Physiological Psychology 6
PSYC 718	(3)	Learning and Motivation
PSYC 722	(3)	Personality and Social Psychology
PSYC 723	(3)	Personality and Social Psychology
PSYC 724	(3)	Personality and Social Psychology
PSYC 725	(3)	Personality and Social Psychology
PSYC 727	(3)	Personality and Social Psychology
PSYC 728	(3)	Ethics and Professional Issues
PSYC 729	(3)	Theory of Assessment
PSYC 730	(3)	Clinical Neuroscience Methods
PSYC 732	(3)	Clinical Psychology 1
PSYC 733	(3)	Clinical Psychology 2
PSYC 734	(3)	Developmental Psychology and Language
PSYC 735	(3)	Developmental Psychology and Language
PSYC 736	(3)	Developmental Psychology and Language
PSYC 740	(3)	Perception and Cognition
PSYC 741	(3)	Perception and Cognition
PSYC 742	(3)	Perception and Cognition
PSYC 743	(3)	Perception and Cognition
PSYC 744	(3)	Perception and Cognition
PSYC 746	(3)	Quantitative and Individual Differences
PSYC 747	(3)	Quantitative and Individual Differences
PSYC 748	(3)	Quantitative and Individual Differences
PSYC 749	(3)	Quantitative and Individual Differences
PSYC 752D1	(3)	Psychotherapy and Behaviour Change
PSYC 752D2	(3)	Psychotherapy and Behaviour Change
PSYC 753	(3)	Health Psychology Seminar 1
PSYC 754	(3)	Health Psychology Seminar 2
PSYC 755	(3)	Health Psychology Seminar 3
PSYC 756	(3)	Health Psychology Seminar 4

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

3.12.20.7 Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

** NEW PROGRAM **

The Ph.D. in Psychology; Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurobiological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise; the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes as determined by the graduate program director.

Thesis

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

Required Courses

PSYC 701	(0)	Doctoral Comprehensive Examination
PSYC 781	(3)	Behavioural Neuroscience Special Topics
PSYC 782	(3)	Behavioural Neuroscience Advanced Seminar

Complementary Courses

6-18 credits

6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

3.12.20.8 Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

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

Required Courses (6 credits)

LING 710	(2)	Language Acquisition Issues 2
PSYC 701	(0)	Doctoral Comprehensive Examination
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

Complementary Courses

15-32 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

PSYC 710	(3)	Comparative and Physiological Psychology 1
PSYC 711	(3)	Comparative and Physiological Psychology 2

PSYC 712	(3)	Comparative and Physiological Psychology 3
PSYC 713	(3)	Comparative and Physiological Psychology 4
PSYC 714	(3)	Comparative and Physiological Psychology 5
PSYC 715	(3)	Comparative and Physiological Psychology 6
PSYC 718	(3)	Learning and Motivation
PSYC 722	(3)	Personality and Social Psychology
PSYC 723	(3)	Personality and Social Psychology
PSYC 724	(3)	Personality and Social Psychology
PSYC 725	(3)	Personality and Social Psychology
PSYC 727	(3)	Personality and Social Psychology
PSYC 728	(3)	Ethics and Professional Issues
PSYC 729	(3)	Theory of Assessment
PSYC 730	(3)	Clinical Neuroscience Methods
PSYC 732D1	(1.5)	Clinical Psychology 1
PSYC 732D2	(1.5)	Clinical Psychology 1
PSYC 733D1	(1.5)	Clinical Psychology 2
PSYC 733D2	(1.5)	Clinical Psychology 2
PSYC 734	(3)	Developmental Psychology and Language
PSYC 735	(3)	Developmental Psychology and Language
PSYC 736	(3)	Developmental Psychology and Language
PSYC 740	(3)	Perception and Cognition
PSYC 741	(3)	Perception and Cognition
PSYC 742	(3)	Perception and Cognition
PSYC 743	(3)	Perception and Cognition
PSYC 744	(3)	Perception and Cognition
PSYC 746	(3)	Quantitative and Individual Differences
PSYC 747	(3)	Quantitative and Individual Differences
PSYC 748	(3)	Quantitative and Individual Differences
PSYC 749	(3)	Quantitative and Individual Differences
PSYC 752D1	(3)	Psychotherapy and Behaviour Change
PSYC 752D2	(3)	Psychotherapy and Behaviour Change
PSYC 753	(3)	Health Psychology Seminar 1
PSYC 754	(3)	Health Psychology Seminar 2
PSYC 755	(3)	Health Psychology Seminar 3
PSYC 756	(3)	Health Psychology Seminar 4

At least 3 credits selected from the following list:

EDSL 620	(3)	Social Justice Issues in Second Language Education
EDSL 623	(3)	Second Language Learning
EDSL 624	(3)	Educational Sociolinguistics
EDSL 627	(3)	Instructed Second Language Acquisition Research
EDSL 629	(3)	Second Language Assessment

EDSL 632	(3)	Second Language Literacy Development
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown
LING 651	(3)	Topics in Acquisition of Phonology
LING 655	(3)	Theory of L2 Acquisition
LING 751	(3)	Advanced Seminar: Experimental 1
LING 752	(3)	Advanced Seminar: Experimental 2
PSYC 545	(3)	Topics in Language Acquisition
PSYC 735	(3)	Developmental Psychology and Language
SCSD 619	(3)	Phonological Development
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Development
SCSD 637	(3)	Developmental Language Disorders 1
SCSD 643	(3)	Developmental Language Disorders 2
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2
SCSD 654	(3)	Advanced Research Seminar 3

0-2 from the following:

EDSL 711	(2)	Language Acquisition Issues 3

0-3 credits of statistics from the following list:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
LING 620	(3)	Experimental Linguistics: Methods
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Students who have taken an equivalent course in statistics will be deemed to have satisfied this requirement for the Language Acquisition Option.

These 3 credits are only required for students who have not previously taken an equivalent course in statistics.

0-12 credits from the following (students without a McGill master's degree need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

3.12.20.9 Doctor of Philosophy (Ph.D.) Psychology: Psychosocial Oncology

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the PSO coordinating committee.

Thesis

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

Required Courses (12 credits)

NUR2 705	(3)	Palliative Care
NUR2 783	(3)	Psychosocial Oncology Research
PSYC 701	(0)	Doctoral Comprehensive Examination

One graduate seminar each term during Year 2 and Year 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily require an examination in a foreign language; however, all students planning on practising clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Note: If the student has a non-McGill master's then the following courses are also required:

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

3.12.21 Public Policy

3.12.21.1 Location

Max Bell School of Public Policy
Wilson Hall
3506 University Street
Montreal QC H3A 2A7
Canada
Telephone: 514-398-2283
Email: *maxbell.school@mcgill.ca*
Website: *www.mcgill.ca/maxbellschool*

3.12.21.1.1 About Public Policy

The Max Bell School of Public Policy's flagship teaching program is a one-year Master of Public Policy (M.P.P.), combining courses in the theory of public policy with courses covering the complexities of the real-world policymaking process. The program will tackle today's most important policy issues in Canada and around the world from varied perspectiv

3.12.21.2 Public Policy Admission Requirements and Application Procedures

3.12.21.2.1 Admission Requirements

The M.P.P. program is directed at early career professionals who normally have two to five years professional experience and who are interested in developing expertise in the field of public policy. Recent graduates with an exceptional academic record will also be considered.

A Bachelor's degree (or equivalent as recognized by McGill University) is required.

The ideal applicant will have completed undergraduate courses in Political Science, Economics, Quantitative Methods, and/or Statistics. A Cumulative Grade Point Average (CGPA) 3.6 out of 4.0 or higher recommended.

Students without an undergraduate or graduate degree from a Canadian University must take the Graduate Record Examination (GRE; General Test). Please use McGill's code, **0935**, when writing the exam.

Applicants who earned a bachelor's degree outside of Canada, Australia, New Zealand, the United Kingdom, or the United States are required to take the Test of English as a Foreign Language (TOEFL). A minimum score of 100 for the Internet-based TOEFL exam test (iBT; 600 for the paper-based test (PBT)) with each component score not less than 20 is required. Please use McGill's institutional code, **0935**, when writing the exam.

Applicants may write the IELTS (International English Language Testing Systems) instead of the TOEFL exam. A minimum overall band score of 7.0 is required, with each component score not less than 7.0. IELTS test scores must be sent electronically by IELTS directly to McGill University using McGill's institutional code: **0935**.

3.12.21.2.2 Application Procedures

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

Detailed application procedures are available at *www.mcgill.ca/gradapplicants/apply*.

3.12.21.2.2.1 Additional Requirements

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

- Personal Statement (1,000 words). Your essay should explain why your background makes you an ideal candidate for the Max Bell M.P.P. program, and how success in this program will enable you to achieve your professional goals.
- *Curriculum Vitae*
- Two letters of reference, ideally one academic and one professional.
- GRE score written within the past five years (where applicable)
- TOEFL or IELTS score written within the past two years (where applicable)

3.12.21.2.3 Application Dates and Deadlines

The deadline to complete your application is February 15. Please note that entrance to the M.P.P. program is highly competitive. It is in the applicant's interest to apply as early as possible. 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.

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens**	**Canadian citizens/Perm. residents of Canada**	**Current McGill Students**
Fall Term:	Sept. 15	Feb. 15	Feb. 15	Feb. 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

3.12.21.3 Public Policy Faculty

Chair

Christopher T.S. Ragan

Professors

Jennifer Welsh; B.A.(Hons.)(Sask.), M.Phil., D.Phil.(Oxf.) (*joint appt. with Political Science*)

Taylor Owen; B.A.(Bishops), M.A.(UBC), D.Phil.(Oxf.)

Associate Members

Nii Addy; B.A.(Swarth.), M.P.A.(Princ.), Ph.D.(Stan.)

Associate Members

Pearl Eliadis; B.C.L.LL.B., B.Sc.(McG.), B.C.L.(Oxf.)

Sébastien Jodoin; B.C.L.LL.B.(McG.), LL.M.(LSE), M.Phil.(Camb.), Ph.D.(Yale)

Nicholas King; B.A.(Penn.), M.A., Ph.D.(Harv.)

Irwin Cotler; B.A./LL.B.(McG.), LL.M.(Yale)

Mayssun El-Attar; Mres in Econ.(EUI), Ph.D.(EUI)

Daniel Beland; B.A.,M.A.(UQAM), Ph.D.(ÉTS Paris)

Visiting Professors

Joseph Heath; B.A.(McG.), M.A., Ph.D.(N'western)

Cindy Skrzycki; B.A.(Canisius), B.Sc.(Amer.)

Professors of Practice

Mark Lloyd;

PPOL 604	(3)	Ethics, Rights, and Law
PPOL 605	(3)	Analytical Methods for Policy Evaluation
PPOL 606	(3)	Experts, Science and Evidence
PPOL 607	(3)	Information and Media Literacy
PPOL 620D1	(4.5)	Client-Focused Policy Laboratory
PPOL 620D2	(4.5)	Client-Focused Policy Laboratory

Complementary Courses (15 credits)

3 credits selected from the following:

PPOL 611	(3)	Canadian Political and Policy Landscape
PPOL 612	(3)	U.S. Political and Policy Landscape
PPOL 613	(3)	Global Political and Policy Landscape

4 credits from the following:

PPOL 631	(1)	Policy Case Study 1
PPOL 632	(1)	Policy Case Study 2
PPOL 633	(1)	Policy Case Study 3
PPOL 634	(1)	Policy Case Study 4
PPOL 635	(1)	Policy Case Study 5
PPOL 636	(1)	Policy Case Study 6

8 credits from the following:

PPOL 640	(2)	Policymaking in a World of Business
PPOL 641	(2)	Rhetoric and Communication of Public Policy
PPOL 642	(2)	Policy and Globalization
PPOL 643	(2)	Ethical Dimensions of Policymaking
PPOL 644	(2)	Stakeholder Management
PPOL 645	(2)	Partisan Politics and Policy Process
PPOL 647	(2)	Achieving Policy Transparency
PPOL 650	(2)	Special Topics in Policy Complexity

3.12.22 Quebec Studies / Études sur le Québec

3.12.22.1 Location

Quebec Studies Program / Programme d'études sur le Québec
3438 McTavish Street, Room 103
Montreal QC H3A 0E4
Canada
Telephone: 514-398-3960
Website: *www.mcgill.ca/qcst*

Director – Professor Éric Bélanger

Québec Studies Scientific Coordinator – Stéphan Gervais

3.12.22.2 About Quebec Studies / Études sur le Québec

In 1963, McGill Univ

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section 3.12.23.10: Doctor of Philosophy (Ph.D.) Religious Studies

a number of different religious traditions. The faculty members are committed to the training of teaching scholars, making the School of Religious Studies one of few schools that prioritizes offering graduate students opportunities under faculty supervision to teach/lecture during their time in the program.

section 3.12.23.11: 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.

Religious Studies Admission Requirements and Application Pr

3.12.23.3.2 Application Procedures

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

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

3.12.23.3.2.1 Additional Requirements

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

- Personal Statement – approximately 500 words
- Written Work – recent academic writing

3.12.23.3.3 Application Dates and Deadlines

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

Application Opening Dates	Application Deadlines

/F3 8.1 Tf1 0 0 1 352.K573.5 Tm(am)T77 5 T

Professors

Gerbern S. Oegema; B.A., Th.D.(Vrije, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen) (*Biblical Studies*)

Armando Salvatore; M.A.(L'Orientale, Naples), Ph.D.(EUI, Florence), Dr. Habil.(Humboldt, Berlin) (*Barbara and Patrick Keenan Chair in Interfaith Studies*)

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 School of Religious Studies for the granting of a master’s degree. Must include within the 12 credits:

Either

WMST 602	(3)	Feminist Research Symposium

or 3 credits of another 500- or 600-level course in Gender and Women’s Studies.

3.12.23.8 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 School of Religious Studies for the granting of a master's degree.

Language Requirement

Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

3.12.23.9 Master of Sacred Theology (S.T.M.) Religious Studies (Non-Thesis) (45 credits)

ATS Accreditation:

The S.T.M. program is fully accredited by the Association of Theological Schools in the U.S. and Canada.

The normal requirement is two years (of two terms each) of full-time study, but the degree may, by permission, be taken on a part-time basis.

Note: Ordination requirements for S.T.M. graduates will normally involve a further year of professional pastoral studies (the In-Ministry Year) provided by the Montreal School of Theology, which is affiliated with the School of Religious Studies.

Required Courses (15 credits)

RELG 645	(3)	Methods in Religious Studies
RELG 646	(6)	Research Project 1

RELG 647	(6)	Research Project 2

Complementary Courses (30 credits)

12 credits from Area Studies listed below.

Area Studies:

RELG 644	(3)	Biblical Theology
RELG 648	(3)	Church History
RELG 652	(3)	Christian Theology
RELG 653	(3)	Philosophy of Religion
RELG 656	(3)	Theological Ethics
RELG 663	(3)	Comparative Religion

18 credits at the 500 lefi8.561 Tm(Phi)

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. 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.

3.12.24 Social Studies of Medicine

3.12.24.1 Location

Department of Social Studies of Medicine
3647 Peel Street
Montreal QC H3A 1X1
Canada
Telephone: 514-398-6033
Email: *dept.ssom@mcgill.ca*
Website: *www.mcgill.ca/ssom*

3.12.24.2 About Social Studies of Medicine

The Department (SSOM) offers graduate studies in three areas:

- Medical Anthropology thesis program, given jointly with the Department of Anthropology;
- History of Medicine non-thesis program, given jointly with the Department of History and Classical Studies; and

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In each program, the student may work toward the M.A. and Ph.D. degrees. All degrees are awarded by the relevant Faculty of Arts department. For further information regarding those departments, please consult the *section 3.12.1: Anthropology*, *section 3.12.10: History and Classical Studies*, or *section 3.12.26: Sociology* sections.

The Department (SSOM) is interdisciplinary, with faculty in the fields of medical anthropology, medical history, and medical sociology. In its programs of graduate studies, it attempts to provide two things: training that is solidly grounded in the discipline of the chosen program, i.e., in anthropology, history, or sociology; and, through seminars and interaction with Department members and other graduate students, exposure to the other disciplines that are represented in the Department. The Department aims to instill in its graduates a combination of disciplinary competence and interdisciplinary perspective.

section 3.12.1.9: Master of Arts (M.A.) Medical Anthropology (Thesis) (48 credits)

The program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences. The M.A. degree is awarded by the Anthropology Department and admission is granted by a joint Admissions Committee made up of representatives from Anthropology and the Department of Social Studies of Medicine.

section 3.12.10.13: Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

The program is composed of required cours[illegible]seminars, [illegible]m [illegible]arch pape[illegible]ogram is normally complet[illegible]ee terms, or one calendar year.

section 3.12.26.8: Master of Arts (M.A. [illegible]l Sociology (Thesis) (45

This includes coursework and a researc[illegible]hat is based on original res[illegible]

section 3.12.26.12: Master of Arts (M.[illegible]cal Sociology (Non-Thesis[illegible]edits)

This includes coursework and a researc[illegible]ased on original research[illegible]

Ph.D. Programs

For information on the doctoral programs, pleas[illegible]e Dep[illegible]– *section 3.12.1: Anthropo[illegible]on 3.12.10: History and Classical Studies*, or *section 3.12.26: Sociology*.

3.12.24.3 Social Studies of Medicine Admission Requirements a[illegible]lication Procedures

3.12.24.3.1 Admission Requirements

M.A. in Medical Anthropology

The program is open to students with backgrounds in th[illegible]ees, the medical professio[illegible]medical sciences.

M.A. in the History of Medicine

section 3.12.25.7: Master of Social Work (M.S.W.) Social Work (Thesis) (45 credits)

Subsequent career paths are varied and lead to exciting opportunities in health, social services, and community organizing, where social workers undertake clinical, leadership, or policy roles.

section 3.12.25.8: Master of Social Work (M.S.W.) Social Work (Thesis): Gender and Women's Studies (45 credits)

Please click the above link for further information on this program.

section 3.12.25.10: Master of Social Work (M.S.W.) Social Work (Non-Thesis): Gender and Women's Studies (45 credits)

Please click the above link for further information on this program.

section 3.12.25.11: Master of Social Work (M.S.W.) Social Work (Non-Thesis): International Partner Program (45 credits)

This program is offered intermittently, based on funding, to a specific cohort of students by invitation only.

section 3.12.25.12: Master of Social Work with Bachelor of Civil Law & Bachelor of Laws (Joint M.S.W

Applicants who have successfully completed a B.S.W., with a minimum high B average (GPA 3.2/4.0), and who have completed university-level

- Ph.D. Curriculum Vitae Form
- Ph.D. Research Proposal (maximum length five pages, single-spaced, including references. Do not append detailed CV.)
- Written Work (upload one sample)

3.12.25.3.3 Application Dates and Deadlines

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

The Qualifying year and M.S.W. deadlines below apply to all application documents, except university transcripts and references, which must be received by January 15.

Qualifying year, M.S.W.

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 15	Dec. 15	Dec. 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Professors

Cindy Blackstock; B.A.(Br. Col.), M.B.A.(McG.), Ph.D.(Tor.)

Myriam Denov; B.A.(Tor.), B.S.W.(McG.), M.A.(Ott.), Ph.D.(Camb.)

Michael MacKenzie; B.Sc., M.Sc., M.S.W.(UWO), Ph.D.(McG.)

James Torczyner; B.H.L.(Yeshiva), M.S.W., D.S.W.(Calif.)

Nico Trocmé; B.A., M.S.W., Ph.D.(Tor.) (*The Philip Fisher Chair in Social Work*)

Associate Professors

Sharon Bond; B.A.(Sir G. Wms.), B.Sc.(Montr.), M.S.W., Ph.D.(McG.)

Shari Brotman; B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

Delphine Collin-Vézina; B.Sc., Ph.D.(Montr.)

Sydney Duder; B.Sc., M.S.W., Dipl. Adv. Soc. Wk. Practice, Ph.D.(McG.)

Jill Hanley; B.A., B.S.W.(McG.), M.A.(Tufts), Ph.D.(Montr.)

Nicole Ives; B.A.(Col.), M.S.W., Ph.D.(Penn.)

Julia Krane; B.A.(Ott.), B.S.W.(McG.), M.S.W., Ph.D.(Tor.)

Lucyna Lach; B.A., M.S.W., Ph.D.(Tor.)

Heather MacIntosh; B.A., Ph.D.(Ott.)

Vadna Sinha; B.A.(Utah), M.A., Ph.D.(N'western)

Tamara Sussman; B.A., B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

Assistant Professors

Wanda Gabriel; B.S.W., M.S.W.(McG.)

Sarilee Kahn; B.F.A.(Utah), M.P.H., M.S.W.(Col.), Ph.D.(NYU)

Zack Marshall; B.A.(McG.), M.S.W.(W. Laur.), Ph.D.(Nfld.)

Katherine Maurer; B.A.(Minn.), M.S.W.(Hunter), Ph.D.(NYU)

Pam Orzeck; B.A., M.S.W.(McG.), PhD.(Laval)

Marjorie Rabiau; B.Sc.(Alta.), Ph.D.(McG.)

Coordinator of Field Education

Francine Granner; B.S.W., M.S.W.(McG.)

Associate Coordinator of Field Education

April Hayward; B.S.W., M.S.W.(McG.)

Marilyn Rowell; B.S.W.(McG.)

3.12.25.5 Qualifying Year (for Entry into M.S.W. Non-Thesis)

Applicants admitted to the Qualifying year are immersed, over two terms of full-time study only, in coursework and fieldwork to provide the foundational knowledge for an exciting career in social work through the continuation of the M.S.W. Non-Thesis program. This full-time Qualifying year of study comprises 15 credits per term. Students who complete the one-year full-time Qualifying year of study at the School of Social Work are eligible for direct entry into the M.S.W. program (Non-Thesis only) provided they have secured a minimum B- grade in each Qualifying year course and have successfully fulfilled all fieldwork requirements. Applications to the Qualifying year are accepted for Fall admission only, and for full-time study only, as this is an integrated program of study for the entire year that cannot be taken out of sequence.

For more information, please visit the School of Social Work website: *www.mcgill.ca/socialwork*.

3.12.25.6 Master of Science, Applied (M.Sc.A.) Couple and Family Therapy (Non-Thesis) (60 credits)

This master's-level clinical program (non-thesis) emphasizes clinical understanding and training in couple and family therapy applicable to multidisciplinary clinical professionals in which family systems and related theories can inform clinical practice. The general objectives of the program are to train clinical professionals in couple and family psychotherapy by integrating contemporary theory, research competence and varied approaches to therapy in the understanding and treatment of families today. It will produce graduates with competencies in the assessment and treatment of families across the life cycle

with skills that can be applied to specialized psychotherapy practice in health and community settings. Program graduates will fulfil the requirements for both the Couple and Family Therapy permit (OTSTCFQ) and the Psychotherapy permit (OPQ).

Required Courses (57 credits)

CAFT 600	(3)	Couple and Family Therapy Pre-Practicum
CAFT 601	(3)	Diversity and Couple and Family Therapy
CAFT 602	(3)	Advanced Assessment in Couple and Family Therapy
CAFT 603	(3)	Research Methods for Couple and Family Therapists
CAFT 604	(3)	Contemporary Issues in Couple and Family Therapy
CAFT 605	(3)	Advanced Family Treatment Across the Lifespan
CAFT 606	(3)	Internship 1 in Couple and Family Therapy
CAFT 607	(3)	Legal, Ethical and Professional Issues in C & FT
CAFT 608	(3)	Human Development Across Lifespan: Couple & Family Therapy
CAFT 609	(3)	Advanced Couple Therapy
CAFT 610	(3)	Biological Foundations of Behaviour for C&FTs
CAFT 611	(6)	Internship 2 in Couple and Family Therapy
CAFT 612	(6)	Internship 3 in Couple and Family Therapy
SWRK 610	(3)	Family Treatment
SWRK 622	(3)	Understanding and Assessing Families
SWRK 623	(3)	Couple Therapy
SWRK 630	(3)	Adult Mental Health

Complementary Courses (3 credits)

from the following:

CAFT 613	(3)	Couple and Family Therapy Internal Practicum
EDPC 503	(3)	Intersectional Relationships and Sexualities
SWRK 621	(3)	Seminar on Trauma and Resilience
SWRK 628	(3)	Violence against Women
SWRK 635	(3)	Advanced Clinical Seminar: Use of Self
SWRK 655	(3)	Seminar on Aging
SWRK 657	(3)	Child and Adolescent Mental Health
SWRK 668	(3)	Living with Illness, Loss and Bereavement
SWRK 669	(3)	Disability and Rehabilitation
SWRK 670	(3)	Seminar on Caregiving

3.12.25.7 Master of Social Work (M.S.W.) Social Work (Thesis) (45 credits)

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories which inform practice, policy, and research. Envisioned as an opportunity to advance knowledge and skills, students are encouraged to immerse themselves in an area of scholarship and practice related to "Children and Families," "Social Care and Health Studies," and "Community and International Development." In addition, students investigate a subject matter of their choice in one of these broad areas of study through an independent study project or a master's thesis. Through the M.S.W. program, students develop critical and innovative approaches to practice competence and to policy analysis such that they may contribute to both established social services and to new and less developed areas of service provision.

Thesis Courses (27 credits)

SWRK 698	(12)	Thesis Research 1

SWRK 699	(15)	Thesis Research 2

Required Courses (6 credits)

SWRK 643	(3)	Research Methods 2
SWRK 653	(3)	Research Methods 1

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional Ordre after graduation but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Elective Courses (12 credits)

12 credits of SWRK courses at the 500 or 600 level; up to 6 credits in total may be taken outside the Department.

3.12.25.8 Master of Social Work (M.S.W.) Social Work (Thesis): Gender and Women's Studies (45 credits)

The School of Social Work's M.S.W. Thesis – Gender and Women's Studies option is designed for students who have strong research interests and are particularly attracted to feminist theories and research methodologies. This program supports the development of advanced intellectual understanding and specialized research skills centered on gender, sexuality, feminism, and women in relation to "Children and Families," "Social Care and Health Studies," and "Community and International Development."

The thesis must be related to Gender and Women's Studies. The M.S.W. Thesis program includes graduate-level coursework and a research thesis. Students work closely with a Faculty supervisor. There is no field placement in the M.S.W. Thesis – Gender and Women's Studies program.

Thesis Courses (27 credits)

SWRK 698	(12)	Thesis Research 1
SWRK 699	(15)	Thesis Research 2

Required Courses (9 credits)

SWRK 643	(3)	Research Methods 2
SWRK 653	(3)	Research Methods 1
WMST 601	(3)	Feminist Theories and Methods

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important, not only to candidates who intend to seek admission to the Quebec Professional Order after graduation.

Complementary Courses (9 credits)

3 credits from the following:

WMST 602	(3)	Feminist Research Symposium

OR 3 credits of 500- or 600-level WMST courses;

OR 3 credits of 500- or 600-level WMST courses in another department or discipline with the approval of a Social Work M.S.W. advisor that has been approved as a complementary course to the Option in Gender and Women's Studies.

6 credits of 500- or 600-level courses selected from the School of Social Work.

3.12.25.9 Master of Social Work (M.S.W.) Social Work (Non-Thesis) (45 credits)

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories that inform practice, policy, and research. Eny

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 polic

Complementary Courses - Social Work (15 credits)

Students complete 15 credits of SWRK courses at the 500 or 600 level. Up to 6 graduate-level credits may be taken outside the School of Social Work with the approval of the Academic Adviser.

Required Courses - Law (46 credits)

First Year

The following 32 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 110D1	(2)	Integration Workshop
LAWG 110D2	(2)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
LAWG 506	(3)	Advanced Civil Law Property
PROC 200	(3)	Advanced Civil Law Obligations
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Common Law Immersion Courses

3 credits from the following list of common law courses:

PRV3 200	(3)	Advanced Common Law Obligations
PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses

3 credits from the following courses:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies
LA	(3)	Inter-American Human Rights

PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses (29 credits)

Students must take 29 other elective courses of

Montreal QC H3A 2T7
Canada
Graduate Program and Admission Information:
Telephone: 514-398-4300
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section 3.12.26.7: Master of Arts (M.A.) Sociology (Thesis): Gender and Women's Studies (45 credits)

This interdisciplinary program is for students who meet the requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and in issues in feminist research and methods. The student's thesis must be on a topic centrally relating to issues of gender and/or women's studies. Researching and writing a thesis takes considerable time, and this program typically takes two years to complete.

section 3.12.26.12: Master of Arts (M.A.) Medical Sociology (Non-Thesis) (45 credits)

The Department contributes to knowledge at the forefront of current issues—in particular, those dealing with health systems and with policies concerning HIV/AIDS. This program is a cooperative effort of the Department of Sociology and the Department of Social Studies of Medicine. Many students who have chosen this option have gone on to do further research and others to personnel work in the health services. The program is designed to be completed within twelve months.

section 3.12.26.9: Master of Arts (M.A.) Sociology (Non-Thesis) (45 credits)

This program is both for students who wish to continue from an undergraduate degree in sociology, and those who wish to enter sociology for the first time. McGill is an excellent venue because the program involves rigorous training in methodology. Academically inclined students have gone on to higher degrees, some at McGill and others at other universities; the training offered has allowed others to go to varied careers, not least as teachers in CEGEPs. This program is designed to be completed within twelve months.

section 3.12.26.10: Master of Arts (M.A.) Sociology (Non-Thesis): Development Studies (45 credits)

This program is for students with a particular interest in development—an area in which McGill is very strong. Many students from this program have gone on to further research, but several have entered the world of non-governmental organizations—with some going on to work for the U.N. Students enter through one of the participating departments and must meet the M.A. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The research paper must be on a topic related to development studies, approved by the Development Studies Option Coordinating Committee. This program is designed to be completed within twelve months.

section 3.12.26.11: Master of Arts (M.A.) Sociology (Non-Thesis): Gender and Women's Studies (45 credits)

This interdisciplinary program is for students who meet the degree requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and in issues in feminist research and methods. The student's research paper must be on a topic centrally relating to issues of gender and/or women's studies. The program is designed to be completed within twelve months.

section 3.12.26.13: Master of Arts (M.A.) Sociology (Non-Thesis): Population Dynamics (45 credits)

The purpose of the Population Dynamics Option (PDO) is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research Projects must be on a topic relating to population dynamics, approved by the PDO coordinating committee.

Ph.D. Program Options

section 3.12.26.14: Doctor of Philosophy (Ph.D.) Sociology

There are two ways to enter the Ph.D. program. Some students are fast-tracked (i.e., from a B.A. degree without having to complete an M.A. in Sociology), as Ph.D. 1 students; they take twelve substantive courses, in addition to various thesis requirements, and are trained in qualitative and quantitative research methods and in research design. Other students, typically those with an M.A. in Sociology, are considered as Ph.D. 2 students; they typically take six substantive courses, in addition to various thesis requirements—although further courses may be required if their methodological skills do not meet the standards required by the Department. Our Social Statistics Laboratory allows students to make systematic use of quantitative data sources. All students must pass two area exams and present a thesis proposal before turning to the thesis itself, which may take the form of a single piece of research, or a set of articles on a particular theme.

section 3.12.26.15: Doctor of Philosophy (Ph.D.) Sociology: Gender and Women's Studies

This interdisciplinary program is for students who meet the Ph.D. requirements in Sociology and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and on issues in feminist research and methods. The thesis or set of articles must relate to issues of gender and/or women's studies.

section 3.12.26.16: Doctor of Philosophy (Ph.D.) Sociology: Population Dynamics

This program aims to provide advanced graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Dissertation topics must be related to population dynamics and approved by the Population Dynamics Option (PDO) coordinating committee.

3.12.26.3 Sociology Admission Requirements and Application Procedures

3.12.26.3.1 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 *Arts Undergraduate* section.

All applicants are asked to submit a writing sample. Applicants who have not received a degree from a Canadian university must submit with their applications the results of the Verbal, Analytical, and Quantitative aptitude tests of the Graduate Record Examination (GRE). Arrangements to take the GRE should be made directly with the Educational Testing Service by visiting their website at *www.ets.org/gre*.

Certain students must submit documented proof of competency in oral and written English. The minimum acceptable score for the *TOEFL* exam is 86 overall on the Internet-based test (iBT; no less than 20 Tf1 509.677 490.54 Tm(e)Tj1ion.namaw1 0 0 1 6 30.54 Tm(Certain students must s a at)Tj0 0 1ant1

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 1	Dec. 1	Dec. 1
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: The Department Admissions Committee announces its selections by mid-March and the end of April.

3.12.26.4 Sociology Faculty

Chair

Matthew Lange

Undergraduate Program Director

Eran Shor

Graduate Program Director

Jason Carmichael

Professors

Shelley Clark; B.A.(Virg.), M.A., Ph.D.(Princ.) (*James McGill Professor*)

John A. H8.1wo3 648 382. 5o3 D 9ac1 Tm(Jo37 1 87irinc.) ()Tj/F2 8.1 Tf1 0 5 1 2470.52 382.83 ingly

Social

SOCI 600*	(3)	Qualitative Research Methods 1
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

3.12.26.7 Master of Arts (M.A.) Sociology (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (27 credits)

Preparation and completion of a thesis on a topic approved by the supervisor and by participating faculty members in the Gender and Women's Studies program.

SOCI 691	(6)	M.A. Thesis 2
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (15 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 580*	(3)	Social Research Design and Practice
SOCI 600*	(3)	Qualitative Research Methods 1
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652*	(3)	Current Sociological Theory
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).

3.12.26.8 Master of Arts (M.A.) Medical Sociology (Thesis) (45 credits)

This program is given jointly by the Sociology Department and the Department of Social Studies of Medicine.

Thesis Courses (27 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
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 580*	(3)	Social Research Design and Practice
SOCI 600*	(3)	Qualitative Research Methods 1
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

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 (at the 500, 600, or 700 level) in History of Medicine.

3.12.26.9 Master of Arts (M.A.) Sociology (Non-Thesis) (45 credits)

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (18 credits)

SOCI 504	(3)	Quantitative Methods 1
SOCI 580	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652	(3)	Current Sociological Theory

All students must have taken these courses or take them during the first year of the program. Students granted and exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantivcs in Sociology of Biomedical Knocs in Sociolog3eeo 3 204.223 Tc.26oof Biomedical(45

SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 514	(3)	Criminology
SOCI 515	(3)	Medicine and Society
SOCI 516	(3)	Sociological Theory & Research
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 529	(3)	Political Sociology 1
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology
SOCI 560	(3)	Labour and Globalization
SOCI 571	(3)	Deviance and Social Control
SOCI 588	(3)	Biosociology/Biodemography
SOCI 590	(3)	Social Conflict and Violence
SOCI 595	(3)	Immigration Control and The State
SOCI 601	(3)	Qualitative Research Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models
SOCI 624	(3)	Social Networks
SOCI 631D1	(3)	Informing Social Policy with Canadian Data
SOCI 631D2	(3)	Informing Social Policy with Canadian Data
SOCI 720	(3)	Reading in Social Theory
SOCI 730	(3)	Reading and Research

3.12.26.10 Master of Arts (M.A.) Sociology (Non-Thesis): Development Studies (45 credits)

The research essay must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1

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SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 625D1*	(0)	Professional Development Seminar in Sociology
SOCI 625D2*	(0)	Professional Development Seminar in Sociology
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits of complementary courses at the 500, 600, or 700 level.

Assignments in the selected courses should focus topically on development issues.

3.12.26.11 Master of Arts (M.A.) Sociology (Non-Thesis): Gender and Women's Studies (45 credits)

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (21 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 580*	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652*	(3)	Current Sociological Theory
WMST 601	(3)	Feminist Theories and Methods

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level including:

WMST 602	(3)	Feminist Research Symposium

or one 3-credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside of the Department).

3.12.26.12 Master of Arts (M.A.) Medical Sociology (Non-Thesis) (45 credits)

This program is given jointly by the Sociology Department and the Department of Social Studies of Medicine.

Research Project (18 credits)

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (18 credits)

SOCI 504*	(3)	Quantitative Methods 1
SOCI 580*	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology

All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar at the 500 level or higher in its place.

Complementary Course (3 credits)

3 credits at the 500 level or higher related to population dynamics selected from the following:

ECON 622	(3)	Public Finance
ECON 634	(3)	Economic Development 3
ECON 641	(3)	Labour Economics
ECON 734	(3)	Economic Development 4
ECON 741	(3)	Advanced Labour Economics

Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year.

Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor.

The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

Complementary Courses

(18-30 credits)

12 credits from substantive courses at the 500 level or higher offered by the Department subject to the approv

SOCI 626	(3)	Demographic Methods
SOCI 631D1	(3)	Informing Social Policy with Canadian Data
SOCI 631D2	(3)	Informing Social Policy with Canadian Data
SOCI 720	(3)	Reading in Social Theory
SOCI 730	(3)	Reading and Research

6 credits from one of the following streams:

Qualitati

Required Courses (6 credits)

A minimum of three years of study is required.

Ph.D. candidates must take examinations in two subfields of sociology. These fields will be chosen from the Department's areas of specialization.

Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year. Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years. Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at: http://www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 700	(0)	Ph.D. Area Examination 1
SOCI 701	(0)	Ph.D. Area Examination 2
SOCI 702	(0)	Ph.D. Proposal Approval
SOCI 703	(0)	Bibliographic Methods 3
SOCI 704	(0)	Bibliographic Methods 4
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Research proposal is subject to Department approval and to approval by the participating faculty members in the Gender and Women's Studies program.

Complementary Courses (12-24 credits)

6 credits from one of the following streams:

Qualitative Stream

SOCI 601	(3)	Qualitative Research Methods 2

AND

3 credits from the following:

SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models

OR

Quantitative Stream

6 credits from the following:

SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models

If an exemption is obtained for one or both of the qualitative or quantitative stream courses above, another one must then be substituted in its place.

6 credits from the following 500-, 600-, or 700-level courses chosen from among the elective courses listed in the Sociology Department course offerings.

3 of the 6 credits must be on Gender & Women's Issues.

SOCI 506	(3)	Quantitative Methods 3
SOCI 507	(3)	Social Change
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 514	(3)	Criminology
SOCI 515	(3)	Medicine and Society
SOCI 516	(3)	Sociological Theory & Research
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 529	(3)	Political Sociology 1
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology
SOCI 560	(3)	Labour and Globalization
SOCI 571	(3)	Deviance and Social Control
SOCI 588	(3)	Biosociology/Biodemography
SOCI 590	(3)	Social Conflict and Violence
SOCI 601	(3)	Qualitative Research Methods 2
SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models
SOCI 624	(3)	Social Networks
SOCI 631D1	(3)	Informing Social Policy with Canadian Data
SOCI 631D2	(3)	Informing Social Policy with Canadian Data
SOCI 720	(3)	Reading in Social Theory
SOCI 730	(3)	Reading and Research

0-12 credits from the following:

SOCI 504	(3)	Quantitative Methods 1
SOCI 580	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 652	(3)	Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one, at the 500-level or higher, must then be substituted in its place.

3.12.26.16 Doctor of Philosophy (Ph.D.) Sociology: Population Dynamics

The Population Dynamics Option (PDO) is open to PhD students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focusses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Dissertation topics must be related to population dynamics and approved by the PDO coordinating committee.

Thesis

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

Required Courses (6 credits)

A minimum of three years of study is required.

SOCI 545	(3)	Sociology of Population
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 626	(3)	Demographic Methods
SOCI 700	(0)	Ph.D. Area Examination 1
SOCI 701	(0)	Ph.D. Area Examination 2
SOCI 702	(0)	Ph.D. Proposal Approval
SOCI 703	(0)	Bibliographic Methods 3
SOCI 704	(0)	Bibliographic Methods 4

Ph.D. candidates must take examinations in two subfields of Sociology. These fields will be chosen from the Department's areas of specialization. In this option, one of these fields must be in Population Dynamics.

Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year. Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

Complementary Courses

(12-24 credits)

6 credits from substantive courses at the 500 level or higher subject to the approval of the Graduate Committee.

3 credits must be taken within the Department from the list below:

SOCI 506	(3)	Quantitative Methods 3
SOCI 507	(3)	Social Change
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 510	(3)	Seminar in Social Stratification
SOCI 511	(3)	Movements/Collective Action
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 514	(3)	Criminology
SOCI 515	(3)	Medicine and Society
SOCI 516	(3)	Sociological Theory & Research
SOCI 519	(3)	Gender and Globalization

SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 526	()	Indigenous Women's Health and Healthcare
SOCI 529	(3)	Political Sociology 1
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology
SOCI 560	(3)	Labour and Globalization
SOCI 571	(3)	Deviance and Social Control
SOCI 588	(3)	Biosociology/Biodemography
SOCI 590	(3)	Social Conflict and Violence
SOCI 601	(3)	Qualitative Research Methods 2
SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models
SOCI 624	(3)	Social Networks
SOCI 631D1	(3)	Informing Social Policy with Canadian Data
SOCI 631D2	(3)	Informing Social Policy with Canadian Data
SOCI 720	(3)	Reading in Social Theory
SOCI 730	(3)	Reading and Research

3 credits must be related to population dynamics from the list below:

ECON 622	(3)	Public Finance
ECON 634	(3)	Economic Development 3
ECON 641	(3)	Labour Economics
ECON 734	(3)	Economic Development 4
ECON 741	(3)	Advanced Labour Economics
ECON 742	(3)	Empirical Microeconomics
ECON 744	(3)	Health Economics
EPIB 648	(3)	Methods in Social Epidemiology
EPIB 681	(3)	Global Health: Epidemiological Research
PPHS 501	(3)	Population Health and Epidemiology
PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 527	(3)	Economics for Health Services Research and Policy
PPHS 528	(3)	Economic Evaluation of Health Programs
PPHS 529	(3)	Global Environmental Health and Burden of Disease
PPHS 615	(3)	Introduction to Infectious Disease Epidemiology
SOCI 502	(3)	Sociology of Fertility

SOCI 512	(3)	Ethnicity & Public Policy
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 588	(3)	Biosociology/Biodemography

6 credits from the following streams:

Qualitative Stream:

SOCI 601	(3)	Qualitative Research Methods 2

and

3 credits from the following:

SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models

OR

Quantitative Stream:

6 credits from the following:

SOCI 620	(3)	Quantitative Methods 2
SOCI 621	(3)	Fixed and Random Effects
SOCI 622	(3)	Event History Analysis
SOCI 623	(3)	Latent Variable Models

If an exemption is obtained for one or both of the qualitative or quantitative stream courses above, another one must then be substituted in its place.

0-12 credits from the following:

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

SOCI 504	(3)	Quantitative Methods 1
SOCI 580	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 652	(3)	Current Sociological Theory

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one must then be substituted in its place.

4 Faculty of Dentistry

4.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. *GPS* is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

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

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

4.2 Graduate and Postdoctoral Studies

4.2.1 Administrative Officers

Administrative Officers	
Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)	**Dean (Graduate and Postdoctoral Studies)**
Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)	**Associate Dean (Graduate and Postdoctoral Studies)**
France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lorraine Chalifour; B.Sc., Ph.D.(Manit.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Elisa Pylkkanen; B.A., M.A.(McG.)	**Director (Graduate and Postdoctoral Studies)**

4.2.2 Location

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

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

4.2.3 Graduate and Postdoctoral Studies' Mission

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

4.3 Important Dates

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

4.4 Graduate Studies at a Glance

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

4.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

4.6 Graduate Admissions and Application Procedures

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

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

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

4.7 Fellowships, Awards, and Assistantships

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

4.8 Postdoctoral Research

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

4.8.1 Postdocs

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

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

4.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- 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

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

4.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

4.12.1 Dentistry

4.12.1.1 Location

Faculty of Dentistry
2001 McGill College ge

section 4.12.1.5: Master of Science (M.Sc.) Dental Sciences (Thesis) (45 credits)

The goal of this program is to train students in research in the dental sciences, which comprise a number of disciplines relating to the functioning of the oro-facial complex.

section 4.12.1.6: Master of Science (M.Sc.) Dental Sciences (Thesis): Oral and Maxillofacial Surgery (46 credits)

McGill University, through the Faculty of Dentistry and the McGill University Health Centre, offers an advanced education program in Oral and Maxillofacial Surgery. The program is fully accredited by the *Canadian Dental Association* Accreditation Committee. It is a four-year program and commences on July 1 of each year.

section 4.12.1.7: Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

This Non-Thesis M.Sc. program offers students the possibility to supplement their existing education by exploring a variety of research topics. Students are able to "sample" various research areas without committing to a specific research topic or project by entering either the Basic Science stream or the Clinical and Populational Health stream. All non-thesis students are encouraged to seek volunteer and summer research opportunities with researchers in the Faculty to further their research experience.

This program offers students a great opportunity to clarify their interests, connect with faculty members, and engage with their cutting-edge research programs to seek additional career and training options (such as entering a Ph.D. program). This non-thesis option is not a residency program and does not provide clinical qualifications.

4.12.1.3 Dentistry Admission Requirements and Application Procedures

4.12.1.3.1 Admission Requirements

M.Sc. in Dental Sciences

Students who have completed a D.M.D./D.D.S. or a B.Sc. in one of the Health Science disciplines listed on our *website* with a CGPA of 3.0 on a 4.0 scale are eligible to apply for admission to a graduate program in the Faculty of Dentistry leading to the M.Sc. degree in Dental Sciences. *TOEFL* (or *IELTS*) test results are required for applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized Canadian institution (anglophone or francophone) or from a recognized foreign institution where English is the language of instruction.

The number of candidates accepted each year will depend on the elective courses and research facilities available that are applicable to the candidate's area of expertise.

Bachelor’s students who have not obtained eligible qualifications will be required to make up for deficiencies in their academic profile by taking a Qualifying year.

M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery

Candidates for this program must possess a D.D.S. or D.M.D. degree or its equivalent, and be eligible for acceptance to the *Ordre des dentistes du Québec* as a training candidate in a hospital.

4.12.1.3.2 Application Procedures

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

See *University Fs-td60 G0Tm(T)Tj1c89.a so the* Admissises angr

M.Sc. in Dental Sciences (Thesis) and M.Sc. in Dental Sciences, Option in Oral and Maxillofacial Surgery				
	Application Opening Dates	Application Deadlines		
	All Applicants	Non-Canadian citizens (incl. Special, Visiting & Exchange)	Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)	Current McGill Students (any citizenship)
Fall Term:	Sept. 15	May 1	June 21	June 21
Winter Term:	Feb. 15	Sept. 10	Nov. 10	Nov. 10
Summer Term:	May 15	Jan. 15	Apr. 1	Apr. 1

M.Sc. in Dental Sciences (Non-Thesis)				
	Application Opening Dates	Application Deadlines		
	All Applicants	Non-Canadian citizens (incl. Special, Visiting & Exchange)	Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)	Current McGill Students (any citizenship)
Fall Term:	Sept. 15	March 1	March 1	March 1
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

4.12.1.4 Dentistry Faculty

Dean, Faculty of Dentistry

E. Emami

Associate Dean, Undergraduate Dental Education

S. Abi-Nader

Assistant Dean, Undergraduate Dental Education

P. Chauvin

Undergraduate Clinic Director

N. Morin

Associate Dean, Research and Graduate Dental Education

F. Tamimi

Graduate Program Director

S. Tran

Associate Dean, Postgraduate Dental Education

N. Makhoul

Emeritus Professors

K.C. Bentley

F. Cervero

M. Gornitsky

H. Rosen

C.E. Smith

Professors

P.J. Allison

J.E. Barralet

L. Diatchenko

J.S. Feine

M.D. McKee

D. Reinhardt

M. Tabrizian

S. Tran

Associate Professors

S. Abi-Nader

C. Bedos

V. Benhamou Cohen

P.J. Chauvin

A. Chehade

R. Freitas de Souza

I.M. Fried

G.J. Harasymowycz

R. Hovey

A. Ianella

M.T. Kaartinen

S. Komarova

M.E. MacDonald

S.I. Miller

F.I. Muroff

M. Murshed

J.M. Myers

J.R. Pompura

E. Raviv

J.-M. Retrouvey

M. Schwartz

L. Stone

F. Tamimi

A.M. Velly

J. Zhang

Assistant Professors

M.C. Auerbach, C. Beraldo Meloto, G. Chiasson, R. Clark, D. Dagdeviren, Z. Der Khatchdourian, R.B.J. Dorion, J.G. Drummond, A. Dudkiewicz, M. El Hakim, B. Ferraz Dos Santos, J.R. Fong Chong, D. Iera, B. Kano, E.R. Karanofsky, A. Khoutorsky, O. Kiarash, G.M. Konanec, Y. Kwong Li, A.E. Lisbona, A. Marleau, M.O. Martel, R. Miller, F.A. Power, R. Raviv, B. Saleh, M.F. Seng, M. Shildkraut, M.D. Shizgal, H. Sirhan, M.A. Stein, D. Taylor, M.A. Wiseman

Faculty Lecturers

M. Abadi, E.M. Abbey, J. Abikhzer, J. Albilia, E. Alvaro, H.A.A. Al-Waeli, S. Arekunnath Madathil, J.F. Arsenau, M. Bakdach, M.O. Bakkar, J-P. Bedirian, S. Behmanesh, J. Benjamin, A. Berardelli, M.-C. Boucher, M.-E. Boucher, Y. Bouhout, Y. Boulos, A.L. Brenner, E. Briones, J.-F. Brochu, M.P. Canales, P. Canonne, J. Carpendale, G.C. Cernica, C. Chahine, K. Chalaby, V. Chamlian, M.-C. Chouinard, M. Cielecki, S. Ciobanu, N. Criton-Muller, C.A.

Faculty Lecturers

Czerednikow, M.J. D'Souza, B. Dabbagh, L. De Vreeze, A. Diamandis, L.P. Dilullo, P. Drakoulakou, N. Elhadad, G.H. El-Onsi, J.C. Erdan, S. Eskenazi, E.C. Espiritu, J.E. Ethier, R. Fagen, J.T. Flanagan, S.M. Fletcher, J. Forsprecher, L. Franco, M. Freijé, C.A. Fung, R. Garofalo, H. Ghaderi-Moghadam, S. Goupil-Lévesque, J. Greenspoon, S.G. Greenwald, J.S. Grewal, T. Hamalian, P. Harrosch, I.D. Hoffman, N. Hojjati, G.J. Hwang, M. Kabawat, D. Kaloyannis, A. Karamitsos, R.J. Karanofsky, N. Karra, I. Katz, D.A. Kennedy, M.B. Kerner, S. Kholmogorova, L. Kichian, T. Konanec, C. Koran, S. Krychman, S. Lacombe, J. Lee, G. Lemieux, A. Levine. O. Levy, H.S. Libenson, P. Lieberman, P. Limniatis, T.C. Luu, N.N. Makansi, V. Malakhova, S.L. Malkinson, O.M. Maria, O. Mark, E. Marko, M. Masri, B. Mayantz, G. Melki, M. Melki, M. Menassa, S. Ment, M. Michelakis, J. Milette, M. Miller, E. Mota, M. Naman, R. Nasseri, P. Nguyen, T.B.M. Nguyen, J. Nudo, Y. Ouahnich, N. Ouatik, S. Papageorgakopoulos, M. Pasoff, J. Patel, G. Payne, O. Peloso, J.T.A.T. Pham, T. Phan, L. Pichler, K. Rafla, H. Rajchgot, C. Reis-Figueiredo, J.L. Retter, V. Reuveni, R. Rezaei, A. Reznik, S.A. Rico-Vargas, C. Robin, P. Robitaille, C. Rode, J. Rouleau, S.M. Ruckenstein, A. Ruest, B. Salis, F. Samim, B. Schneider, E. Schneidman, J. Seguin, M.Senye, M. Sgro, S. Shabib, N. Shahidi, N. Sharma, A. Sherman, M.E. Silver, W.L. Steinman, M. Sutton, P. Sweet, G. Thelland-Gauthier, N.R.G. Thorpe, S. Tikhonova, B. Toukhmanian, C. Tra, C. Tse-Wallerstein, P. Van Wijlen, B. Wazirian, J. Werbitt, K. Yacovitch, N.G. Yoffe, A. Zaini

Adjunct Professors

DENT 504	(3)	Biomaterials and Bioperformance
DENT 654	(3)	Mechanisms and Management of Pain
DENT 664	(1)	Introduction to Research Communication
DENT 665	(1)	Leadership and Management Skills in Research
DENT 669	(3)	Extracellular Matrix Biology
DENT 673	(3)	Biotechnology and Entrepreneurship
DENT 681	(1)	Readings in Dentistry and Health Research 1
DENT 682	(2)	Readings in Dentistry and Health Research 2
DENT 683	(3)	Readings in Dentistry and Health Research 3
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells
PHGY 550	(3)	Molecular Physiology of Bone

3 credits from:

EXMD 609	(3)	Cellular Methods in Medical Research
EXMD 610	(3)	Molecular Methods in Medical Research

Stream 2: Clinical and Populational Health

24 credits from:

DENT 664	(1)	Introduction to Research Communication
DENT 665	(1)	Leadership and Management Skills in Research
DENT 672	(3)	Applied Mixed Methods in Health Research
DENT 681	(1)	Readings in Dentistry and Health Research 1
DENT 682	(2)	Readings in Dentistry and Health Research 2
DENT 683	(3)	Readings in Dentistry and Health Research 3
DENT 685	(3)	Theory of Dental Public Health
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

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5 Faculty of Education

5.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

5.4 Graduate Studies at a Glance

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

5.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

5.6 Graduate Admissions and Application Procedures

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

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

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

5.7 Fellowships, Awards, and Assistantships

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

5.8 Postdoctoral Research

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

5.8.1 Postdocs

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

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

5.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

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

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations. Persons may only be registered with postdoctoral status for a period of up to five years from the date they were awarded a Ph.D. or equivalent degree. Time allocated to parental or health

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- to oversee the registration and appointment of Postdocs;
-

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines*

Our graduates secure careers in a varied and rewarding range of settings. These include, but are not limited to: academic and research settings; professional psychology (counselling and school psychology); specialized and innovative teaching; educational research; development and leadership at all levels (e.g., schools, colleges and universities; school boards; ministries of education); staff development; and education in the professions.

Detailed graduate degree descriptions are available in the following sections:

- *section 5.12.1.2: Graduate Degrees in Counselling Psychology*
- *section 5.12.1.2: Graduate Degrees in School/Applied Psycholo*

Note: The APA no longer accredits programs outside of the United States of America effective September 1, 2015. The implication of this decision for students is that those who graduate from our programs after this date cannot attest to having graduated from an APA-accredited program. F

section 5.12.1.7: Doctor of Philosophy (Ph.D.) Counselling Psychology

Student pursuing a Ph.D. in Counselling Psychology take a combination of theoretical, practical, and research-based courses throughout the duration of their degree. It draws upon a number of different sciences (including developmental, social, career and neuropsychology and personality theory) to develop critically astute researchers and exceptionally skilled clinicians. Building on the M.A. in Counselling Psychology (Project concentration), or equivalent, the program offers opportunities in Practicum, Supervision, and full-year Internships to develop clinical skills while also working toward the completion of a doctoral dissertation (thesis). The Ph.D. program, has the following aims:

1. To contribute to the advancement of knowledge in the field of counselling psychology.
2. To practise from a strong evidence base.
3. To take a leadership role in community, professional, and university organizations in counselling psychology.

Graduates of the program will be prepared to assume careers in education and community settings, including faculty positions, counselling and psychological positions on the staff of university and college mental health centres, and professional positions in psychological agencies offering preventative mental health services. The program is currently accredited by the Canadian Psychological Association (CPA), and the *Ordre des psychologues du Québec* (OPQ) (Please note that the APA no longer accredits programs outside of the United States of America). Graduates are eligible for licensure in Quebec.

For further information, consult the *website*.

Graduate Degrees in School/Applied Psychology

section 5.12.1.8: Master of Arts (M.A.) School/Applied Child Psychology (Non-Thesis) (60 credits)

The School/Applied Child Psychology program at McGill University prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Coursework, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill's scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill's School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill become leaders in research and higher education, school-based practice, hospital-based positions, independent practice, mental health centres, and policy-making roles.

section 5.12.1.9: Doctor of Philosophy (Ph.D.) School/Applied Child Psychology

The Ph.D. in School/Applied Child Psychology is the second degree in a combined M.A. and Ph.D. program with the M.A. (Thesis) in Educational Psychology's School/Applied Child Psychology concentration. Most students in the doctoral program completed their M.A. in the Educational Psychology program although students can apply for direct entry into the Ph.D. program with a master’s degree obtained at another institution. At both the M.A. and 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 improv

section 5.12.1.10: Graduate Diploma (Gr. Dip.) School/Applied Child Psychology (Post-Ph.D.)

Master of Arts (M.A.); Educational Psychology (Thesis) (48 credits) (*Note that the School/Applied Child Psychology Major (Non-Thesis) is 60 credits.*)

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*

Doctor of Philosophy (Ph.D.); Educational Psychology

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 multidiscipl 122mgelopment conty

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Learning Sciences concentration can be found on the *Department's website*.

Health Professions Education Concentration

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Health Professions concentration can be found on the *Department's website*.

Human Development Concentration

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: Human Development concentration can be found on the *Department's website*.

School/Applied Child Psychology Major

Information on application procedures, deadlines, supporting documents, and contact information for the M.A. in Educational Psychology: School/Applied Child Psychology Major can be found on the *Department's website*.

5.12.1.3.6.2.1 Additional Requirements

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

Learning Sciences Concentration

- Curriculum Vitae
- Three reference letters
- Statement of Research Interest and Preferred Supervisor(s)
- Personal Statement

Health Professions Education Concentration

- Curriculum Vitae
-

Information on application procedures, deadlines, supporting documents, and contact information for the **Ph.D. in Educational Psychology: Human Development** concentration can be found on the *Department's website*.

Information on application procedures, deadlines, supporting documents, and contact information for the **Ph.D. in Educational Psychology: Learning Sciences** concentration can be found on the *Department's website*.

5.12.1.3.7.2.1 Additional Requirements

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

Human Development Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Letter from proposed supervisor indicating their agreement to act as the Thesis Supervisor

Learning Sciences Concentration

- Curriculum Vitae
- Three reference letters
- Personal Statement
- Research Proposal
- Letter from proposed supervisor indicating their agreement to act as the Thesis Supervisor

5.12.1.3.8 Application Dates and Deadlines

Program Directors

Martin Drapeau – *Counselling Psychology*

Tara Flanagan – *Human Development, M.Ed. Concentrations in Educational Psychology*

Nathan Hall – *Health Professions Education, Learning Sciences*

Armando Bertone – *School/Applied Child Psychology*

Ada L. Sinacore – *Graduate Certificate in Counselling Applied to Teaching*

Emeritus Professors

Mark W. Aulls; B.S.(Ball St.), M.Ed.(Ind.), Ed.D.(Georgia)

Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)

Janet G. Donald; B.A., M.A.(UWO), Ph.D.(Tor.)

Florent R. Dumont; A.B.(Col.), M.S.(S. Conn. St.), Ed.D.(Mass.)

Marilyn Fitzpatrick; B.A.(Tor.), M.Ed., Ph.D.(McG.)

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.

Cynthia B. Weston; B.A.(G'town), M.L.S.(SUNY), Ed.D.(Wash.)

Professors

Jacob A. Burack; B.A.(Col.), M.S., M.Phil., Ph.D.(Yale)

Jeffrey L. Derevensky; B.A.(C.W. Post), M.A., Ph.D.(McG.)

Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor.) (*James McGill Professor*)

Susanne P. Lajoie; B.A., M.A.(McG.), Ph.D.(Stan.) (*Canada Research Chair, Tier 1*)

Alenoush Saroyan; B.A.(Pahlavi), M.Ed.(Loy. U. Chic.), Ph.D.(McG.)

Associate Professors

Armando Bertone; B.A., M.A.(C'dia), M.Ps., Ph.D.(Montr.) (*William Dawson Scholar*) (*FRSQ Chercheur Boursier, Junior 2*)

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.)

Martin Drapeau; B.A.(Montr.), B.A.Ps.(UQTR), M.Ps.(Laval), Ph.D.(UQAM)

Tara Flanagan; B.A.(Winn.), M.A., Ph.D.(McG.)

Nathan Hall; B.A., M.A., Ph.D.(Manit.)

Michael L. Hoover; B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)

Annett Körner; B.A., M.A., Ph.D.(Leipzig)

Gigi Luk; B.A., M.A., Ph.D.(York)

Krista Muis; B.A.(Wat.), M.A.(Vic., BC), Ph.D.(S. Fraser) (*Canada Research Chair, Tier 2*)

Steven R. Sha

Assistant Professors

Adam Dubé; B.A., M.A., Ph.D.(Regina)

Nate Fuks; M.B.A.(York), Ph.D.(McG.)

Marie-Claude Geoffroy; M.Ps., Ph.D.(Montr.)

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 of

Complementary Courses (3 credits)

3 credits from the following:

EDPE 682	(3)	Univariate/Multivariate Analysis
		Qualitativ

EDPI 654	(3)	Instruction/Curriculum Adaptation
EDSP 600D1	(1.5)	School Psychology Seminar
EDSP 600D2	(1.5)	School Psychology Seminar
EDSP 609	(3)	Introduction to Cognitive Assessment
EDSP 610	(3)	Introduction to Psycho-educational Assessment
EDSP 611	(3)	History, Theory and Best Practices in School Psychology
EDSP 619	(3)	Child and Adolescent Therapy
EDSP 650D1	(1.5)	Professional Practice in School Setting
EDSP 650D2	(1.5)	Professional Practice in School Setting
EDSP 682D1	(3)	Psycho-Educational Assessment & Intervention Practicum
EDSP 682D2	(3)	Psycho-Educational Assessment & Intervention Practicum
EDSP 691	(3)	Research Project 1
EDSP 692	(3)	Research Project 2
EDSP 693	(3)	Research Project 3
EDSP 694	(3)	Research Project 4
EDSP 695	(3)	Research Project 5
EDSP 696	(3)	Research Project 6

5.12.1.9 Doctor of Philosophy (Ph.D.) School/Applied Child Psychology

The School/Applied Child Psychology program at McGill University prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Course work, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill's scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill's School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill

Field Placement

12 credits

EDSP 721D1	(3)	Field Placement 1: School Psychology
EDSP 721D2	(3)	Field Placement 1: School Psychology
EDSP 722D1	(3)	Field Placement 2: School Psychology
EDSP 722D2	(3)	Field Placement 2: School Psychology

Internship (24 credits)

24 credits

EDSP 725D1	(12)	Internship: School Psychology
EDSP 725D2	(12)	Internship: School Psychology

Complementary Courses (3 credits)

3 credits from the following:

EDPE 684	(3)	Applied Multivariate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology

Graduate Diploma (Gr. Dip.) School/Applied Child Psychology (Post-Ph.D.)

One year full time or two years half-time

EDPE 725	(12)	Internship 1 - School Psychology
EDPE 726	(12)	Internship 2 - School Psychology

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this Post-doctoral Graduate Diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the American Psychological Association (APA). Graduates of a respecialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the Post-doctoral Graduate Diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

5.12.1.11 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Family Life Education (48 credits)

Note: Admission to this program is currently suspended

For more information, see www.mcgill.ca/study/f

The M.Ed. in Educational Psychology; Non-Thesis-General Educational Psychology focuses on core areas of educational psychology, including learning theories, human development, diversity, and inclusion. Application towards the growth and enhancement of knowledge and practice in a variety of formal and informal educational settings.

Required Courses (21 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 535	(3)	Instructional Design
EDPE 575	(3)	Statistics for Practitioners
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 and Future

Complementary Courses (24 credits)

24 credits from the following:

EDPC 501	(3)	Facilitating Relationships
EDPC 502	(3)	Group Processes and Diversity

EDPI 654	(3)	Instruction/Curriculum Adaptation
EDPI 656D1	(3)	Community-Based Field Work
EDPI 656D2	(3)	Community-Based Field Work
EDPI 665	(3)	Teaching of Reading
EDPI 667	(3)	Promoting Social and Emotional Well-Being

Elective Courses (3 credits)

3 credits at the 500- or 600-level of courses offered by the Department or from other departments or faculties with approval of the Program Director.

Revision, May 2019. End of revision.

5.12.1.13 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology: Project (48 credits)

Revision, May 2019. Start of revision.

The M.Ed. in Educational Psychology: Non-Thesis - General Educational Psychology-Project focuses on core areas of educational psychology, including learning theories, human development, diversity, and inclusion. Application towards the growth and enhancement of knowledge and practice in a variety of formal and informal educational settings. Provides an opportunity to focus on an issue in the field of educational psychology by completing a research project.

Required Courses (33 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 535	(3)	Instructional Design
EDPE 575	(3)	Statistics for Practitioners
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 and 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 (15 credits)

EDPC 501	(3)	Facilitating Relationships
EDPC 502	(3)	Group Processes and Diversity
EDPC 503	(3)	Intersectional Relationships and Sexualities
EDPC 504	(3)	Communication and Critical Conflict Resolution
EDPC 505	(3)	Crisis Intervention Processes
EDPC 507	(3)	Advocacy, Outreach and Leadership
EDPC 540	(3)	Social Responsibility and Relationships in Digital Age
EDPC 542	(3)	Leadership and Support Roles of the Teacher
EDPC 562	(3)	Career as a Lifelong Process
EDPE 515	(3)	Gender Identity Development
EDPE 555	(3)	Theoretical Foundations of Learning Sciences
EDPE 595	(3)	Seminar in Special Topics 1
EDPE 596	(3)	Seminar in Special Topics 2
EDPE 616	(3)	Cognitive Development

EDPE 620	(3)	Developmental Psychopathology
EDPE 623	(3)	Social-Emotional Development
EDPE 636	(3)	Motivation and Instruction
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPI 526	(3)	Supporting Students' Strengths and Talents
EDPI 527	(3)	Creativity and its Cultivation
EDPI 543	(3)	Family, School and Community
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

Revision, May 2019. End of revision.

5.12.1.14 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education (48 credits)

Revision, May 2019. Start of revision.

The M.Ed. in Educational Psychology: Non-Thesis-Inclusive Education focuses on the major theories and practices in the field of inclusive education, including diversity in development, and ecological models of teaching, learning, and assessment. Application in school, community, and other settings to develop inclusive practices.

Required Courses (30 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 575	(3)	Statistics for Practitioners
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPI 543	(3)	Family, School and Community
EDPI 642	(3)	Inclusion: Past, Present and 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)	Facilitating Relationships
EDPC 502	(3)	Group Processes and Diversity
EDPC 503	(3)	Intersectional Relationships and Sexualities
EDPC 504	(3)	Communication and Critical Conflict Resolution
EDPC 505	(3)	Crisis Intervention Processes
EDPC 507	(3)	Advocacy, Outreach and Leadership
EDPC 540	(3)	Social Responsibility and Relationships in Digital Age
EDPC 542	(3)	Leadership and Support Roles of the Teacher

EDPC 562	(3)	Career as a Lifelong Process
EDPE 515	(3)	Gender Identity Development
EDPE 595	(3)	Seminar in Special Topics 1
EDPE 596	(3)	Seminar in Special Topics 2
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity
EDPI 526	(3)	Supporting Students' Strengths and Talents
EDPI 527	(3)	Creativity and its Cultivation
EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2
EDPI 656D1	(3)	Community-Based Field Work
EDPI 656D2	(3)	Community-Based Field Work

Revision, May 2019. End of revision.

5.12.1.15 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education: Project (48 credits)

Revision, May 2019. Start of revision.

The M.Ed. in Educational Psychology: Non-Thesis-Inclusive Education-Project focuses on the major theories and practices in the field of inclusive education, including diversity in development, and ecological models of teaching, learning, and assessment. Application in school, community, and other settings to develop inclusive practices. Provides an opportunity to focus on an issue in the field of inclusive education by completing a research project.

Required Courses (42 credits)

EDPE 502	(3)	Theories of Human Development
EDPE 575	(3)	Statistics for Practitioners
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPI 543	(3)	Family, School and Community
EDPI 642	(3)	Inclusion: Past, Present and 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)	Facilitating Relationships
EDPC 502	(3)	Group Processes and Diversity
EDPC 503	(3)	Intersectional Relationships and Sexualities
EDPC 504	(3)	Communication and Critical Conflict Resolution
EDPC 505	(3)	Crisis Intervention Processes

EDPC 507	(3)	Advocacy, Outreach and Leadership
	(3)	Social Responsibility and Relationships in Digital Age

EDPE 666	(3)	Foundations of Learning Science
EDPE 668	(3)	Advanced Seminar in Learning Sciences
		Special Activg Sciev709.D21tn5u(6nce)Tj1 0 0 1 165.8Cn0m(vg Sc6dl1.s.1 0 0 1 16 .4E 668)Tj1 0 0 1 221.949 694.12

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.

5.12.1.18 Master of Arts (M.A.) Educational Psychology (Thesis): Human Development (45 credits)

motivation, and emotion; (c) technology-rich learning environments; and (d) social, cultural, and historical foundations of learning. Methodological courses focus on research design and quantitative and qualitative data analytic techniques. Program outcomes include knowledge of relevant theories, related empirical research methodologies and results, and the application of gained knowledge and skills to design and conduct research related to educational interventions, processes, and outcome. The program develops complementary and professional competencies in educational research beyond coursework- through mentoring, research supervision and apprenticeship in research labs.

For additional information see: www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Required Courses (12 credits)

EDPE 605	(3)	Research Methods
EDPE 666	(3)	Foundations of Learning Science
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

Complementary Courses (9 credits)

EDPE 636	(3)	Motivation and Instruction
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 668	(3)	Advanced Seminar in Learning Sciences
EDPE 670	(3)	Educational Assessment and Evaluation
EDPE 687	(3)	Qualitative Methods in Educational Psychology

or other 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director718.84 Tm(wleTm(Thesis 5)T in rese i.9

EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (15 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

9 credits from the following:

EDPE 620	(3)	Developmental Psychopathology
EDPI 642	(3)	Inclusion: Past, Present and Future
EDPI 656D1	(3)	Community-Based Field Work
EDPI 656D2	(3)	Community-Based Field Work
EDPI 665	(3)	Teaching of Reading

Or other 600- and 700-level courses offered by the Department, which must be approved by the Supervisor and Program Director.

Revision, May 2019. End of revision.

5.12.1.21 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 www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (27 credits)

EDPE 605	(3)	Research Methods
EDPE 666	(3)	Foundations of Learning Science
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 704	(3)	Advanced Research Seminar 1
EDPE 705	(3)	Advanced Research Seminar 2
EDPE 706	(3)	Advanced Research Seminar 3
EDPE 707	(3)	Advanced Research Seminar 4
EDPE 708	(0)	Comprehensive Examination
EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (6 credits)

3 credits from the following:

EDPE 636	(3)	Motivation and Instruction
EDPE 637	(3)	Issues in Health Professions Education
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
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:

(3)		Applied Multivariate Statistics

Learning, and Curriculum focus emphasizes current perspectives on pedagogy and curriculum, teacher education, in-and-out-of-school learning, practitioner research, and classroom practice.

section 5.12.2.13: Master of Arts (M.A.) Education and Society (Non-Thesis): Project Math & Science Education (45 credits)

knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas.

Master of Arts in Educational Leadership

The M.A. in Educational Leadership consists of a thesis or non-thesis program. This program is designed to prepare leaders in the field of education, and in other centres of formal or informal learning, who are committed to personal and institutional improvement. The program fosters the ongoing development of reflective practitioners who have a sense of educational action, the capacity to anticipate needs, the ability to exercise professional judgment within the realities of policy frameworks, and the ability to both lead and support institutional and organizational change at all levels. A central theme of the program is the impact of policy on educational practice at local, national, and international levels.

Local and international students are practising and aspiring school principals and leaders from other organizations. Graduates fulfil Quebec Ministry requirements for school leadership and find positions as school leaders, as well as opportunities in other managerial settings.

section 5.12.2.14: Master of Arts (M.A.) Educational Leadership (Thesis) (45 credits)

The M.A. thesis option is a research-oriented degree in which approximately half of the program consists of thesis research. The balance of the program is course work.

section 5.12.2.15: Master of Arts (M.A.) Educational Leadership (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the M.A. thesis must be on a topic centrally relating to issues of gender and/or women’s studies.

section 5.12.2.16: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Course Work (45 credits)

The M.A. non-thesis option, consisting entirely of course work, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.12.2.17: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Project (45 credits)

The M.A. non-thesis option – Project consists of both course work and a project. It is less research-oriented than the thesis option and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.12.2.18: Master of Arts (M.A.) Educational Leadership (Non-Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the project must be on a topic centrally relating to issues of gender and/or women’s studies.

Master of Arts in Second Language Education

The M.A. in Second Language Education consists of a thesis or non-thesis program. It provides an overview of the state of the art in second-language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning areas (for example, content-based second-language teaching or “immersion”), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second-language teaching practitioners, program administrators, or evaluators.

From a range of pedagogical, linguistic, cognitive, political, and sociocultural perspectives, this program combines theoretical and applied studies of how second and foreign languages are learned and used.

section 5.12.2.19: Master of Arts (M.A.) Second Language Education (Thesis) (45 credits)

The M.A. thesis option is a research-oriented degree in which approximately half of the program consists of thesis research. The balance of the program is course work.

section 5.12.2.20: Master of Arts (M.A.) Second Language Education (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women’s Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn credits of approved course work focusing on gender and women’s studies, and issues in feminist research and methods. In the graduate option in Gender and Women’s Studies, the M.A. thesis must be on a topic centrally relating to issues of gender and/or women’s studies.

section 5.12.2.21: Master of Arts (M.A.) Second Language Education (Non-Thesis) (45 credits)

The M.A. non-thesis option, consisting entirely of course work, is less research-oriented and suitable for practitioners interested in professional development with a theoretical orientation.

section 5.12.2.30: Doctor of Philosophy (Ph.D.) Educational Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit who wish to earn 6 credits of approved course work focusing on gender and women's studies, and issues in feminist research and methods. In the graduate option in Gender and Women's Studies, the Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

section 5.12.2.31: Doctor of Philosophy (Ph.D.) Educational Studies: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Educational Studies. The Ph.D. thesis must be on a topic relating to language acquisition, approved by the LAP committee.

section 5.12.2.32: Doctor of Philosophy (Ph.D.) Educational Studies: Mathematics and Science Education

This Ph.D. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. Applicants for the Ph.D. concentration in mathematics and science education would be expected to already have a Master's degree that included educational research.

Graduate Certificates

section 5.12.2.33: Graduate Certificate (Gr. Cert.) Educational Leadership 1 (15 credits)

This program addresses the needs of experienced and aspiring school leaders who are taking increased responsibility for the students and communities they serve. The management of schools is increasingly seen as making a major contribution to the learning and personal development of students. The professional development of school leaders, educational reform, and school partnership form the basis for the program. **Course selection to be approved by Graduate Certificate Program Director.**

section 5.12.2.34: Graduate Certificate (Gr. Cert.) Educational Leadership 2 (15 credits)

This program explores more deeply leadership theory and educational issues and applications in a practicum. Candidates for the Graduate Certificate in Educational Leadership 2 should normally have completed the first certificate. In combination, the two certificates allow school administrators to acquire the 30 graduate credits in the field of educational leadership required by the Quebec Ministry of Education. **Course selection to be approved by Graduate Certificate Program Director.**

No course taken in Certificate 1 can be repeated in Certificate 2.

section 5.12.2.35: Graduate Certificate (Gr. Cert.) Educational Leadership 3 (15 credits)

This program emphasizes applied research in educational leadership and ways in which educational leadership can associated theories can inform the design, implementation, and assessment of educational programs in schools. The program highlights applied research in the context of teaching and learning in Quebec elementary and secondary schools.**Course selection to be approved by Graduate Certificate Program Director.**

No course taken in Certificate 1 can be repeated in Certificate 2 or in Certificate 3.

section 5.12.2.36: Graduate Certificate (Gr. Cert.) International Leadership in Educational and Administrative Development (15 credits)

This program targets leaders, consultants, senior management and administrators, and policy makers from a range of educational institutions (universities, colleges, private schools) and org

section 5.12.2.37: Graduate Certificate (Gr. Cert.) Teaching English as a Second Language (15 credits)

This program is designed as professional development for in-service teachers and candidates with a background in education, language studies, linguistics, or a related field, or as preparation for application to our M.A. in Second Language Education. The five courses that comprise the certificate provide a solid background and offer in-depth study in the field of second-language education from a range of perspectives and with a focus on research and applications to teaching. Please note that this certificate does not lead to teacher certification. The Graduate Certificate in TESL is designed to be available to students worldwide. Courses are offered in a combination of online and face-to-face formats, and are sequenced in such a way that students can complete the certificate in one year. The maximum time for completion is three years. The first three courses are offered online, and can be undertaken wherever an Internet connection is available. The final two courses are offered face-to-face in the Summer term either on-site at McGill or at off-site locations with collaborative partners, if enrolment numbers warrant it.

section 5.12.2.38: Certificat d’études supérieures en pédagogie de l'immersion française (Cert.ed.sup.) pédagogie de l'immersion française (15 crs)

Le certificat d’études supérieures en pédagogie de l’immersion française vise à faire la formation des enseignants en immersion française tout en abordant les défis pédagogiques reliés à

Graduate Certificate in Teaching English as a Second Language – Applicants are required to pass a written and oral English language proficiency test set by the Department.

Master of Arts in Second Language Education – Normally, applicants are required to have a minimum of 36 credits including a combination of relevant courses in education and language studies. Applicants are required to have at least two years of relevant professional experience in education.

Master of Arts in Educational Leadership – Normally, applicants are required to have at least two years of relevant leadership experience (teaching or related professional experience).

Master of Arts in Teaching and Learning (MATL) (Non-Thesis) – Please see the *Departmental website* for additional admission requirements. Applicants to the MATL TESL option are required to pass a written and oral English language proficiency test with a French component set by the Department. Applicants are required to have experience in educational settings (formal or informal).

Certificat d'études supérieures en pédagogie de l'immersion française – Applicants are required to pass a written and oral French language proficiency test set by the Department.

5.12.2.3.2 Application Procedures

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

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

5.12.2.3.2.1 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.

5.12.2.3.3 Application Dates and Deadlines

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

M.A. Second Language Education, M.A. Educational Leadership, M.A. Education and Society, Graduate Certificate in International Leadership in Educational and Administrative Development

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 1	Jan. 1	Jan. 1
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Master of Arts in Teaching and Learning (MATL)

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	N/A	N/A	N/A	N/A
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	May 15	Dec. 15	Jan. 15	Jan. 15

Graduate Certificate in Educational Leadership				
	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	March 1	March 1	March 1
		Sept. 10	Oct. 15	Oct. 15

Assistant Director of Undergraduate Programs

Sheryl Smith-Gilman

Director of First Nations and Inuit Education

James Howden

Assistant Director of First Nations and Inuit Education

Stephen Peters

Director of Ph.D. Program

Marta Kobiela

Assistant Director of MATL

Limin Jao

Director of Internships and Student Affairs, and of Graduate Certificates in Educational Leadership

Lisa Starr

Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)

David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas-Austin)

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)

Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (*Post-retirement*)

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.)

Anthony Paré[illegible]

Associate Professors

Caroline Riches; B.A., M.Sc.(Alta.), Ph.D.(McG.)

Mela Sarkar; B.A., Dip.Ed.(McG.), M.A., Ph.D.(C'dia)

Annie Savard; B.Ed., M.A., Ph.D.(Laval)

Doreen Starke-Meyerring; B.Ed.(Potsdam), M.A.(N. Dakota), Ph.D.(Minn.) (*in memoriam*)

Teresa Strong-Wilson; B.A.(Calg.), B.A.(McG.), M.A., Ph.D.(Vic., BC)

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

Susan Ballinger; B.A.(Wash.), M.A., Ph.D.(McG.)

Christian Ehret; B.A., M.Ed.(Georgia), Ph.D.(Vanderbilt)

Allison Gonsalves; B.Sc.(UWO), M.Sc.(Guelph), Ph.D.(McG.)

Blane Harvey; B.A.(Ott.), M.A., Ph.D.(McG.)

Philip Howard; B.A.(Cornell), Dip.Ed., M.A.(McG.), Ph.D.(OISE, Tor.)

Limin Jao; B.Sc., B.Ed.(Qu.), M.A., Ph.D.(OISE, Tor.)

Marta Kobiela; B.Sc., M.Sc.(Texas A & M), Ph.D.(Vanderbilt)

Joseph Levitan; B.A.(Brandeis), M.A.(Col.), Ph.D.(Penn. St.)

Janine Metallic; B.Sc., M.Sc., Ph.D. (McG.)

Naomi Nichols; B.A.(Trent), B.Ed., M.Ed., Ph.D.(York)

Elizabeth Patitsas; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.) (*joint app. with Computer Science*)

Lisa Starr; B.Ed.(Regina), M.A.(Phoenix), Ph.D.(Vic., BC)

Paul Zanazanian; B.A., M.A.(McG.), Ph.D.(Montr.)

Faculty Lecturers

Hélène Boucher; B.Mus.(Laval), M.Mus.(Montr.), Ph.D.(McG.)

James Howden; B.Ed.(McG.), M.Ed.(OISE, Tor.)

Stephen Peters; B.Ed.(Alta.), M.A., Ph.D.(McG.)

Sheryl Smith-Gilman; B.Ed., M.A., Ph.D.(McG.)

5.12.2.5 Master of Arts (M.A.) Education and Society (Thesis) (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

Required Courses (6 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research

Re6ne.j1 0tr8vAlta.), M.A., Ph.D.(McG.)

5.12.2.6 Master of Arts (M.A.) Education and Society (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

Required Courses (9 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 690	(3)	Research Methods: Theory and Practice
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (3 credits)

3 credits chosen from the following, must be either:

WMST 602	(3)	Feminist Research Symposium

or one 3-credit course, at the 500, 600, or 700 level on gender/women's issues, chosen in consultation with the Thesis Supervisor or Graduate Program Director.

Elective Courses (9 credits)

9 credits at the 500- level or higher, chosen in consultation with the Thesis Supervisor or Graduate Program Director. Maximum 3 credits from outside the Department.

5.12.2.7 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 (12 credits)

EDEC 624	(3)	Researching, Teaching, Learning and Teacher Education
EDEC 625	(3)	MA Seminar in Practice-Based Teacher Education 1
EDEC 626	(3)	MA Seminar in Math and Science Education 2
EDEM 690	(3)	Research Methods: Theory and Practice

Complementary Courses (6 credits)

3 credits of graduate-level courses from the following:

EDEC 646	(3)	Sociocultural and Epistemic Understandings of Science
EDEC 647	(3)	Sociocultural and Epistemic Understandings of Mathematics

3 credits of courses, from the following:

EDEC 606	(3)	Autobiographical Approaches in Education

EDEC 635	(3)	Research Writing
EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 692	(3)	Qualitative Research Methods
EDER 608	(3)	Educational Implications of Social Theory
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 676	(3)	Intermediate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology
EDSL 630	(3)	Qualitative/Ethnographic Methods
EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 508	(3)	Critical Influences on Educational Praxis

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Thesis Supervisor or Graduate Program Director.

5.12.2.8 Master of Arts (M.A.) Education and Society (Non-Thesis) (45 credits)

The M.A. non-thesis option consists mostly of coursework, and includes two 6 credit projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The project creates an opportunity for students to investigate a particular interest.

Research Project (12 credits)

EDER 633	(6)	Project 1
EDER 634	(6)	Project 2

Required Courses (6 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 690	(3)	Research Methods: Theory and Practice

Complementary Courses (15 credits)

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning
EDEC 617	(3)	Special Topics in Educational Studies
EDEC 620	(3)	Meanings of Literacy
EDEC 627	(3)	Critical Discourse Studies in Education
EDEC 628	(3)	Literacy - Multilingual/Multicultural Settings
EDEC 635	(3)	Research Writing
EDER 600	(3)	Globalization, Education & Change
EDER 606	(3)	Philosophy of Moral Education
EDER 607	(3)	Ethics and Values in Education
EDER 608	(3)	Educational Implications of Social Theory
EDER 609	(3)	Education and Philosophical Thought
EDER 614	(3)	Sociology of Education
EDER 615	(3)	Introduction to Philosophy of Education
EDER 617	(3)	Aesthetics and Education

EDER 622	(3)	Studies in Comparative Education
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education
EDER 643	(3)	Women, Education and Development
EDER 649	(3)	Education: Multicultural Societies

Elective Courses (12 credits)

12 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits outside DISE is permitted.

5.12.2.9 Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work (45 credits)

The M.A. in Education and Society; Non-Thesis-Course Work program consists exclusively of course work. This option is less research-oriented than the (thesis and 1 355.5 566.284.636((thesis andj1 0 0 Tw1 a0 0 or 0 car)Tjn thSocie.3 Tf1 0 0 1 67.52 629.607 Tm5331 T 649)TRequ Cod 0 0 1 120.441 629.5.2.25331 T 6

Elective Courses (15 credits)

15 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits, at the 500 level or higher, may be taken outside of the Department, selected in consultation with the approval of Program Coordinator or Director, and Department Chair.

5.12.2.10 Master of Arts (M.A.) Education and Society (Non-Thesis): Course Work Math & Science Education (45 credits)

The M.A. in Education and Society; Non-Thesis-Course Work - Mathematics and Science Education program emphasizes a pedagogical understanding of mathematics and science education, including a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have developed understanding of research in mathematics and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

Required Courses (12 credits)

EDEC 624	(3)	Researching, Teaching, Learning and Teacher Education
EDEC 625	(3)	MA Seminar in Practice-Based Teacher Education 1
EDEC 626	(3)	MA Seminar in Math and Science Education 2
EDEM 609	(3)	Critical Perspectives in Educational Theory and Research

Complementary Courses (18 credits)

3 credits from the following:

EDEC 646	(3)	Sociocultural and Epistemic Understandings of Science
EDEC 647	(3)	Sociocultural and Epistemic Understandings of Mathematics

15 credits from the following:

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning
EDEC 627	(3)	Critical Discourse Studies in Education
EDEC 635	(3)	Research Writing
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 660	(3)	Community Relations in Education
EDEM 676	(3)	Organizing Non-Formal Learning
EDEM 690	(3)	Research Methods: Theory and Practice
EDER 600	(3)	Globalization, Education & Change
EDER 606	(3)	Philosophy of Moral Education
EDER 607	(3)	Ethics and Values in Education
EDER 608	(3)	Educational Implications of Social Theory
EDER 609	(3)	Education and Philosophical Thought
EDER 614	(3)	Sociology of Education
EDER 615	(3)	Introduction to Philosophy of Education
EDER 617	(3)	Aesthetics and Education
EDER 622	(3)	Studies in Comparative Education
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education

EDER 643	(3)	Women, Education and Development
EDER 649	(3)	Education: Multicultural Societies
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 676	(3)	Intermediate Statistics
EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 508	(3)	Critical Influences on Educational Praxis

Elective Courses

15 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

5.12.2.11 Master of Arts (M.A.) Education and Society (Non-Thesis): Gender and Women's Studies (45 credits)

The M.A. non-thesis project option - Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit and wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The non-thesis project option consists mainly of coursework, and includes two 6 credit projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The project must be on a topic centrally relating to issues of gender and/or women's studies.

Research Project (12 credits)

EDER 633	(6)	Project 1
EDER 634	(6)	Project 2

Required Courses (9 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 690	(3)	Research Methods: Theory and Practice
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

12 credits from the following:

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning
EDEC 617	(3)	Special Topics in Educational Studies
EDEC 620	(3)	Meanings of Literacy
EDEC 628	(3)	Literacy - Multilingual/Multicultural Settings
EDEC 635	(3)	Research Writing
EDER 603	(6)	Individual Reading Course
EDER 606	(3)	Philosophy of Moral Education
EDER 607	(3)	Ethics and Values in Education
EDER 608	(3)	Educational Implications of Social Theory
EDER 609	(3)	Education and Philosophical Thought
EDER 614	(3)	Sociology of Education
EDER 615	(3)	Introduction to Philosophy of Education
EDER 617	(3)	Aesthetics and Education

EDER 622	(3)	Studies in Comparative Education
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education
EDER 643	(3)	Women, Education and Development
EDER 649	(3)	Education: Multicultural Societies

3 credits chosen from the following, must be either:

WMST 602	(3)	Feminist Research Symposium

or one 3-credit course, at the 500 level or higher, on gender/women's issues.

Elective Courses (9 credits)

9 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits outside of DISE is permitted.

5.12.2.12 Master of Arts (M.A.) Education and Society (Non-Thesis): Jewish Education (45 credits)

This program is designed to offer a graduate-level point of entry into the teaching profession for students who typically will have completed a B.A. with minor or major in Jewish Studies. The M.A. will not provide Quebec Government teacher certification (in Quebec, certification is at the B.Ed. level), but at the present time, Jewish schools may hire non-certified teachers of Jewish Studies at their discretion.

Students interested in doing a research-focused M.A. in the area of Jewish Education should follow one of the other graduate degree offerings within the area of Education and Society.

Required Internship (15 credits)

EDER 610D1	(7.5)	Internship
EDER 610D2	(7.5)	Internship

Required Courses (6 credits)

EDEM 690	(3)	Research Methods: Theory and Practice
EDER 520	(3)	Issues in Jewish Education

Complementary Courses (24 credits)

24 credits at the 500, 600, or 700 level, selected in consultation with the program adviser. Students will normally follow this profile:

9 credits from the course offerings of the Department of Jewish Studies, Faculty of ofile:

EDER 606	(3)	Philosophy of Moral Education
EDER 607	(3)	Ethics and Values in Education
EDER 608	(3)	Educational Implications of Social Theory
		Education and Philosophical

5.12.2.15 Master of Arts (M.A.) Educational Leadership (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

Required Courses (12 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (6 credits)

3 credits selected from the following courses:

EDEC 606	(3)	Autobiographical Approaches in Education
EDEM 690	(3)	Research Methods: Theory and Practice
EDEM 692	(3)	Qualitative Research Methods
EDSL 630	(3)	Qualitative/Ethnographic Methods

3 credits selected from the following, must be either:

WMST 602	(3)	Feminist Research Symposium

or one 3 credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.12.2.16 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Course Work (45 credits)

Required Courses (9 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education

Complementary Courses (30 credits)

21 credits selected from the following courses:

EDEM 606	(3)	Educational Leadership Issues
EDEM 628	(3)	Education Resource Management
EDEM 630	(3)	Workplace Learning
EDEM 637	(3)	Managing Educational Change
EDEM 644	(3)	Curriculum Development and Implementation
EDEM 646	(3)	Planning and Evaluation
EDEM 664	(3)	Education and the Law

EDEM 674	(3)	Organizational Theory and Education
EDEM 675	(3)	Special Topics 1 in Educational Leadership
EDEM 677	(3)	Special Topics 2 in Educational Leadership
EDEM 690	(3)	Research Methods: Theory and Practice
EDEM 693	(3)	School Improvement Approaches

9 credits selected from the following courses:

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning

(3)m(aluation)itti Planning and Evaluation

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 in Educational Leadership
EDEM 677	(3)	Special Topics 2 in Educational Leadership
EDEM 693	(3)	School Improvement Approaches

3 credits selected from the following courses:

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning
EDEC 620	(3)	Meanings of Literacy
EDEC 635	(3)	Research Writing
EDER 607	(3)	Ethics and Values in Education
EDER 608	(3)	Educational Implications of Social Theory
EDER 614	(3)	Sociology of Education
EDER 615	(3)	Introduction to Philosophy of Education
EDER 622	(3)	Studies in Comparative Education
		Special T

EDSL 669	(6)	Thesis Research 4

Required Courses (12 credits)

EDEM 690	(3)	Research Methods: Theory and Practice
EDPE 575	(3)	Statistics for Practitioners
EDSL 623	(3)	Second Language Learning
EDSL 627	(3)	Instructed Second Language Acquisition Research

Complementary Courses (6 credits)

6 credits selected from the following courses:

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDSL 617	(3)	Special Topics in Second Language Education
EDSL 620	(3)	Social Justice Issues in Second Language Education
EDSL 624	(3)	Educational Sociolinguistics
EDSL 629	(3)	Second Language Assessment
EDSL 630	(3)	Qualitative/Ethnographic Methods
EDSL 632	(3)	Second Language Literacy Development
EDSL 640	(3)	Language Awareness: Theory and Practice
EDSL 651	(3)	Content-Based L2 Learning

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.12.2.20 Master of Arts (M.A.) Second Language Education (Thesis): Gender and Women's Studies (45 credits)

Thesis Courses (24 credits)

EDSL 666	(6)	Thesis Research 1
EDSL 667	(6)	Thesis Research 2
EDSL 668	(6)	Thesis Research 3
EDSL 669	(6)	Thesis Research 4

Required Courses (15 credits)

EDEM 690	(3)	Research Methods: Theory and Practice
EDPE 575	(3)	Statistics for Practitioners
EDSL 623	(3)	Second Language Learning
EDSL 627	(3)	Instructed Second Language Acquisition Research
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (6 credits)

3 credits selected from the following courses:

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDSL 617	(3)	Special Topics in Second Language Education
EDSL 620	(3)	Social Justice Issues in Second Language Education

EDSL 624	(3)	Educational Sociolinguistics
EDSL 629	(3)	Second Language Assessment
EDSL 630	(3)	Qualitative/Ethnographic Methods
EDSL 632	(3)	Second Language Literacy Development
EDSL 640	(3)	Language Awareness: Theory and Practice
EDSL 651	(3)	Content-Based L2 Learning

3 credits chosen from the following, must be either:

WMST 602	(3)	Feminist Research Symposium

or one 3 credit course, at the 500, 600, or 700 level, on gender/wo pl, on genq lR.38 Tmfues3pf97 694.12 Tm(v)Tj1 d 0 0 1 222.538 568.94 Tm(c165.864 0 0 0 1 27591

CESL 690	(3)	Writing for Graduate Students
EDEC 635	(3)	Research Writing

An undergraduate language course (e.g. Spanish, Italian, Japanese).

5.12.2.22 Graduate Student Teaching / M.A. in Teaching and Learning Internship

The *: Internships & Student Affairs Office (ISA)* in the Faculty of Education (*www.mcgill.ca/isa*

- consult the *MATL guidelines* to determine if the contract may be eligible to meet Internship requirements;
- ensure that the contract is for a minimum 70% of a full-time teaching workload; 100% of actual teaching hours must be in the appropriate teachable subject area;
- complete the full number of required hours—per Internship guidelines—which may necessitate an extension of the Internship dates;
- submit a copy of the contract (or a detailed letter from the School Administrator/HR) confirming the teaching schedule and conditions to the ISA; any further modification of an approved contract must be approved by the ISA.

5.12.2.22.4 Internship Guidelines (Syllabus)

Detailed Internship guidelines and copies of evaluation forms for each Internship are posted on the *ISA website*. Students are responsible for familiarizing themselves with the Internship objectives, evaluation criteria, and forms prior to the start of each Internship.

5.12.2.22.5 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Internship, including pedagogical and professional behaviour (available at *www.mcgill.ca/isa*) prior to the start of the Internship.

Students are strongly discouraged from engaging in any type of employment during the course of the Internship (with the exception of a teaching contract used to fulfill the Internship requirements) nor register for any additional/non-required course(s) which may interfere with the successful outcome of the Internship; accommodations will not be granted for students with employment responsibilities.

ISA relies on the goodwill of Cooperating Teachers and School Administrators to arrange placements. To that end, the ISA strives to maintain professional relationships established over time with partner schools. Student teachers in the MATL program are advised to be aware of the commitment they are making to their chosen career when beginning the Internship. All decisions and actions should reflect the ethics of the teaching profession and the highest standards of professionalism.

Attendance and Absences

Punctual attendance is required at the host school for the duration of the Internship (per the host school's full-day schedule and not that of the Cooperating Teacher's). Unexcused absences from the Internship and/or corequisite courses, including Professional Seminar, may result in exclusion from the corequisite course or removal from/failure in the Internship.

Excused absences include:

- *Illness*: Student teachers may be absent for up to 2 days without supporting medical documentation; after 2 days, a student teacher must obtain a supporting medical note and the outcome of the Internship may be evaluated by the ISA Director, as necessary;
- *McGill Exam*: Student teachers with a scheduled McGill exam may be absent from the host school on the appointed day; this provision does not cover non-McGill exams;
- *Religious Observation*: Student teachers are permitted to be absent for religious holy days, as outlined in McGill's *Policy on holy days*;
- *McGill Varsity Sporting Event(s)*: Student teachers are permitted to participate in a sporting event as a member of a McGill varsity team; student teachers must provide the ISA with supporting documentation from McGill *Athletics & Recreation*.

Days missed due to e

5.12.2.22.6 Grading and Credit

Internships are graded according to the graduate grading scale (*section 1.1.8.1: Grading and Grade Point Averages (GPA)*).

For students admitted to the MATL program **prior to Summer 2017**:

- A final grade is assigned for the Internship course (EDIN) based on a combination of their marks in the field work (Internship) and Professional Seminar components;
- Grades are weighted as follows: Supervisor Summative (40%), Cooperating Teacher Summative (40%), Professional Seminar Grade (20%). In the case of the Summative Evaluations, which are marked on a 1–5 point scale across 12 Professional Competencies (5 being the highest possible mark), each mark out of 5 is assigned a corelating number out of 100 and an average is calculated to reach a final numerical grade out of 100; this is then converted to the corresponding letter grade;
- Students must pass both the Internship and Professional Seminar components of the course individually in order to pass the Internship (EDIN) course as a whole.

For students admitted to the MATL program **in Summer 2017 and beyond**:

- A final grade is assigned for the Internship course (EDIN) based on a combination of their marks in the field work (Internship) alone;
- Grades are weighted as follows: Supervisor Summative (50%), Cooperating T

5.12.2.22.7 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

Respects and recognizes the right of indi

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education.

The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternately, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years.

Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) or the Test de certification en français écrit pour l'enseignement (TECFÉE), as appropriate, prior to taking EDIN 610 Internship 1.

Required Courses (54 credits)

EDEC 612	(3)	Digital Media and Learning
EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDIN 610	(7)	Internship 1
EDIN 620	(8)	Internship 2
EDPS 600	(3)	Introductory Professional Seminar
EDPS 610	(2)	Professional Seminar 1
EDPS 620	(1)	Professional Seminar 2
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 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
EDTL 640	(3)	Teacher Inquiry and Action Research

Complementary Courses (6 credits)

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

3 credits selected from:

EDER 609	(3)	Education and Philosophical Thought
EDER 615	(3)	Introduction to Philosophy of Education
EDTL 506	(3)	Philosophy of Education

5.12.2.25 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English Language Arts Option (60 credits)

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in

Required Courses (51 credits)

EDEC 612	(3)	Digital Media and Learning
EDEM 609	(3)	Critical Perspectives in Educational Theory and Research

Note: The Quebec Ministry of Education requires that all students pass the English Exam for Teacher Certification (EETC) prior to taking EDIN 610 Internship 1.

Required Courses (54 credits)

EDEC 612	(3)	Digital Media and Learning
EDEM 690	(3)	Research Methods: Theory and Practice
EDIN 610	(7)	Internship 1
EDIN 620	(8)	Internship 2
EDPS 600	(3)	Introductory Professional Seminar
EDPS 610	(2)	Professional Seminar 1
EDPS 620	(1)	Professional Seminar 2
EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 515	(0)	English Exam for Teacher Certification
EDTL 525	(3)	Teaching Science and Technology
EDTL 601	(3)	Cross-curricular Teaching Methods
EDTL 604	(3)	Techniques for Assessment
EDTL 607	(3)	Language and Policy in Quebec Education
EDTL 609	(3)	Diverse Learners
EDTL 625	(3)	Applied Methods in Teaching Science in Secondary School
EDTL 626	(3)	Advanced Applied Methods in Teaching Science in Sec. School
EDTL 640	(3)	Teacher Inquiry and Action Research

Complementary Courses (6 credits)

3 credits selected from:

EDEC 646	(3)	Sociocultural and Epistemic Understandings of Science
EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science

3 credits selected from:

EDER 609	(3)	Education and Philosophical Thought
EDER 615	(3)	Introduction to Philosophy of Education
EDTL 506	(3)	Philosophy of Education

5.12.2.29 Doctor of Philosophy (Ph.D.) Educational Studies

Students must satisfy all program requirements of the Ph.D.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.

EDEC 703	(4)	Ph.D. Colloquium

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (3 credits)

One of the following courses:

EDEC 705	(3)	Advanced Research Designs
EDEC 706	(3)	Textual Approaches to Research
EDEC 707	(3)	Interpretive Inquiry
EDEM 692	(3)	Qualitative Research Methods
	(3)	Qualitative/Ethnographic Methods

WMST 601 (3) Feminist Theories and Methods

EDEC 705	(3)	Advanced Research Designs
EDEC 706	(3)	Textual Approaches to Research
EDEC 707	(3)	Interpretive Inquiry

At least 3 credits selected from the follo

Required Courses (17 credits)

EDEC 624	(3)	Researching, Teaching, Learning and Teacher Education
EDEC 700	(2)	Proseminar in Education 1
EDEC 701	(0)	Ph.D. Comprehensive Examination
EDEC 702	(2)	Proseminar in Education 2
EDEC 703	(4)	Ph.D. Colloquium
EDEC 708	(3)	PhD Seminar in Practice-Based Teacher Education 1
EDEC 709	(3)	PhD Seminar in Math and Science Education 2

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

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.

5.12.2.34 Graduate Certificate (Gr. Cert.) Educational Leadership 2 (15 credits)

This 15-credit program explores more deeply leadership theory and educational issues and applications in a practicum. Candidates for the Graduate Certificate in Educational Leadership 2 should normally have completed the first certificate. In combination, the two certificates allow school administrators to acquire the 30 graduate credits in the field of educational leadership required by the Quebec Ministry of Education.

Course selection to be approved by Graduate Certificate Program Director.

No course taken in Certificate 1 can be repeated in Certificate 2.

Complementary Courses

15 credits from:

EDEM 606	(3)	Educational Leadership Issues
EDEM 660	(3)	Community Relations in Education
EDEM 664	(3)	Education and the Law
EDEM 671	(3)	Role of the Leader
EDEM 673	(3)	Leadership Theory in Education
EDEM 675	(3)	Special Topics 1 in Educational Leadership
EDEM 681	(3)	Practicum - Administrative Studies
EDEM 693	(3)	School Improvement Approaches
EDEM 695	(3)	Policy Studies in Education

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

5.12.2.35 Graduate Certificate (Gr. Cert.) Educational Leadership 3 (15 credits)

The Graduate Certificate in Educational Leadership 3 emphasizes applied research in educational leadership and ways in which educational leadership and associated theories can inform the design, implementation, and assessment of educational programs in schools. The program highlights applied research in the context of teaching and learning in Quebec elementary and secondary schools. No course taken in the Graduate Certificate in Educational Leadership 1 may be repeated in Graduate Certificate in Educational Leadership 2 or Graduate Certificate in Educational Leadership 3. The Graduate Certificate in Educational Leadership 3 may be offered on campus or online.

Required Courses (12 credits)

EDEM 625	(6)	Project 1
EDEM 627	(6)	Project 2

Complementary Courses (3 credits)

3 credits from:

EDEM 690	(3)	Research Methods: Theory and Practice
EDEM 692	(3)	Qualitative Research Methods

- coaching expertise;
- team building;

5.12.3.3 Kinesiology and Physical Education Admission Requirements and Application Procedures

5.12.3.3.1 Admission Requirements

Master's level

1. An undergraduate degree in Physical and Health Education, Exercise Science, Kinesiology, or its equivalent is required.
2. A minimum academic standing equivalent to a CGPA of 3.0 out of 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

Doctoral level

1. A Master's degree in Kinesiology or a related discipline, or an equivalent background is required.
2. A minimum academic standing equivalent to a CGPA of 3.0 out of 4.0 or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

5.12.3.3.2 Application Procedures

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

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

Admissions and application information for *Master's* and *Doctoral* programs is also available on the Department of Kinesiology and Physical Education's website (*www.mcgill.ca/edu-kpe/programs*)

5.12.3.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Feb. 15	Feb. 15	Feb. 15
Winter Term:	Feb. 15	Sept. 1	Oct. 1	Oct. 1
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete application are considered only as time and space permit.

5.12.3.4 Kinesiology and Physical Education Faculty

Chair

Julie Côté

Director of Undergraduate Programs

Gordon Bloom

Graduate Program Director

Shane Sweet

Emeritus Professor

Greg Reid; B.Ed.(McG.), M.S.(Calif.), Ph.D.(Penn. St.)

Professors

Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple)

Gordon Bloom; B.Ed.(UWO), M.A.(York), Ph.D.(Ott.)

Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)

Dilson Rassier; B.P.E.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)

Associate Pr

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

Complementary Courses (18 credits)

3 credits from:

EDKP 631	(3)	Qualitative Methods
EDPE 676	(3)	Intermediate Statistics

15 credits from:

Students must take a minimum of 9 credits of coursework in a classroom setting that is relevant to their area of research selected in consultation with the Graduate Student Adviser.

EDKP 504	(3)	Health & Lifestyle Education
EDKP 548	(3)	Applied Exercise Psychology
EDKP 603	(6)	Individual Reading Course 1
EDKP 616	(3)	Individual Reading Course 2
EDKP 631	(3)	Qualitative Methods
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)	Advanced Experimental Problems
EDKP 695	(3)	Thesis Research 5
EDKP 696	(3)	Thesis Research 6
EDPE 676	(3)	Intermediate Statistics

Students may also take courses from the Faculty of Education or the Faculty of Arts in consultation with an adviser (500, 600, or 700 level).

5.12.3.6 Master of Science (M.Sc.) Kinesiology and Physical Education (Thesis) (45 credits)

Areas: Biomechanics, Exercise Physiology, and Motor Control and Learning

Thesis Courses (24 credits)

EDKP 691	(6)	Thesis Research 1
EDKP 692	(6)	Thesis Research 2

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 548	(3)	Applied Exercise Psychology
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 631	(3)	Qualitative Methods
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)	Advanced 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).

5.12.3.7 Master of Arts (M.A.) Kinesiology and Physical Education (Non-Thesis) (45 credits)

This program is currently not offered.

Areas: Adapted Physical Activity, Pedagogy, and Sport and Exercise Psychology

Research Project (15 credits)

EDEM 692	(3)	Qualitative Research Methods
EDKP 605	(3)	Research Methods 1
EDPE 575	(3)	Statistics for Practitioners
EDSL 630	(3)	Qualitative/Ethnographic Methods

12 credits selected from the following:

EDKP 504	(3)	Health & Lifestyle Education
EDKP 548	(3)	Applied Exercise Psychology
EDKP 603	(6)	Individual Reading Course 1
EDKP 616	(3)	Individual Reading Course 2
EDKP 631	(3)	Qualitative Methods
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)	Advanced 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).

5.12.3.8 Master of Science (M.Sc.) Kinesiology and Physical Education (Non-Thesis) (45 credits)

This program is currently not offered.

Areas: Biomechanics, Exercise Physiology, and Motor Control and Learning

Research Project (15 credits)

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)	Statistics for Practitioners

EDSL 630	(3)	Qualitative/Ethnographic Methods

12 credits chosen from the following:

EDKP 542	(3)	Environmental Exercise Physiology
EDKP 548	(3)	Applied Exercise Psychology
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)	Advanced 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).

5.12.3.9 Doctor of Philosophy (Ph.D.) Kinesiology Sciences

The objective of the Ph.D. in Kinesiology Sciences is to provide opportunities for in-depth research experience in (an) area(s) of Departmental expertise within the breath of kinesiology research. The program will provide graduate research training in kinesiology-related areas such as exercise physiology, biomechanics, motor control, physical and health education pedagogy, and sport, exercise and health psychology provided by a rich environment in the

EDKP 603D1	(3)	Individual Reading Course 1
EDKP 603D2	(3)	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 650	(3)	Research in Physical Education Pedagogy
EDKP 652	(3)	Cardio-Respiratory Exercise Physiology
EDKP 654	(3)	Sport Psychology
EDKP 655	(3)	Inclusive Physical Activity
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 672D1	(3)	Advanced Experimental Problems
EDKP 672D2	(3)	Advanced Experimental Problems

6 Faculty of Engineering

6.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. *GPS* is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

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

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

6.2 Graduate and Postdoctoral Studies

6.2.1 Administrative Officers

Administrative Officers	
Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)	**Dean (Graduate and Postdoctoral Studies)**
Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)	**Associate Dean (Graduate and Postdoctoral Studies)**
France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lorraine Chalifour; B.Sc., Ph.D.(Manit.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Elisa Pylkkanen; B.A., M.A.(McG.)	**Director (Graduate and Postdoctoral Studies)**

6.2.2 Location

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

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

6.2.3 Graduate and Postdoctoral Studies' Mission

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

6.3 Important Dates

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

6.4 Graduate Studies at a Glance

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

6.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

6.6 Graduate Admissions and Application Procedures

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

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

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

6.7 Fellowships, Awards, and Assistantships

Please refer to *University Regulations & Resources* > *Graduate* > *section 1.5: Fellowships, Awards, and Assistantships* for information and contact information reg

6.8 Postdoctoral Research

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

6.8.1 Postdocs

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

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

6.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Every unit hosting Postdocs should have explicitly stated policies and procedures for the provision of postdoctoral education as well as established means for informing Postdocs of policies, procedures, and privileges (e.g., orientation sessions, handbooks, etc.), as well as for 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

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(ailable f)ronsibilities

6.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

6.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

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

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

6.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of a 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 whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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 tratl0 0 1 159.446 163.193 Tm(vi7nh59.446 163. 0 1 8)Tj/F1 10 T.)8.1 Tf1 0 0 1 81.693 163.1931 0 0The indi

6.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

6.10 Graduate Student Services and Information

Graduate students are encouraged to refer to *section 1.7: Student Services and Information* for information on the following topics:

6.12.1 Architecture

6.12.1.1 Location

Peter Guo-hua Fu School of Architecture
Macdonald-Harrington Building
815 Sherbrooke Street West
Montreal QC H3A 0C2
Canada
Telephone: 514-398-6700
Website: *www.mcgill.ca/architecture*

6.12.1.2 About Peter Guo-hua Fu School of Architecture

M.Arch. (Professional) (Non-Thesis), M.Arch. (Post-professional) (Non-Thesis), Ph.D.

The Peter Guo-hua Fu School of Architecture at McGill University offers a professional Master of Architecture program, a post-professional Master of Architecture program, and a Ph.D. program.

The **M.Arch. (Professional)** requires the equivalency of the B.Sc. (Architecture) degree for admittance. There are two options for the completion of this *Canadian Architectural Certification Board* (CACB)-accredited degree:

- Design Studio (45 credits)
- Design Studio Directed Research (60 credits)

The M.Arch. (Professional) program is accredited by the CACB and is recognized as accredited by the *National Council of Architectural Registration Boards* (NCARB) in the U.S.

The **M.Arch. (Post-professional)** and the **Ph.D. programs** are for study beyond the professional degree in architecture. These programs have been conceived to respond to the needs of graduates with some professional experience who wish to acquire more specialized knowledge in architecture. The M.Arch. (Post-professional) program reflects a McGill tradition of academic inquiry and research, and provides an opportunity for a select number of students and staff to work together. The program is organized in such a way as to meet the needs of the professional practitioner and the researcher, and is intended to extend traditional architectural education as well as address new issues.

There are two areas of study in the M.Arch. (Post-professional) and Ph.D. programs:

- Architectural History and Theory
- Urban Design and Housing

Information concerning the duration of programs, documents required of applicants, etc., may be obtained at *www.mcgill.ca/architecture*.

Architectural Certification in Canada

In Canada, all provincial associations recommend a degree from an accredited professional degree program as a prerequisite for licensure. The *CACB*, which is the sole agency authorized to accredit Canadian professional degree programs in architecture, recognizes two types of accredited degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Since all provincial associations in Canada recommend any applicant for licensure to have graduated from a CACB-accredited program, obtaining such a degree is an essential aspect of preparing for the professional practice of architecture. While graduation from a CACB-accredited program does not assure registration, the accrediting process is intended to verify that each accredited program substantially meets those standards that, as a whole, comprise an appropriate education for an architect.

Please note that the M.Arch. (Post-professional) degree is not a professional degree and does not satisfy the requirements for certification with the CACB.

Professional Programs

There are two options for the completion of this CACB-accredited degree:

section 6.12.1.5: Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio (45 credits)

The Design Studio concentration is a three-term (Fall, Winter, and Fall) program based on a design-intensive professional curriculum and centred on the design studio. Students work in a traditional studio format for the first two terms and on a terminal design project in the third (Fall) term. Complementary and elective course offerings are organized to provide flexibility in individual program design and create opportunities for students to both explore the discipline and focus on subject areas related to research and design interests. This option is a three-term consecutive degree (Fall, Winter, Fall) requiring full-time residence for one calendar year.

For further information regarding admission eligibility and requirements, please see: *www.mcgill.ca/architecture/programs/professional*.

section 6.12.1.6: Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio-Directed Research (60 credits)

The Design Studio Directed Research concentration is a four-term (Fall, Winter, Summer, Fall) program that complements the regular three-term concentration with a supervised individual research report in the Summer term. This forms the basis of the terminal design studio in the fourth (Fall) term. Each student is assigned a faculty adviser in the second term and follows a research-intensive curriculum shaped by complementary and elective courses chosen in consultation with, and approved by, the adviser.

For further information regarding admission eligibility and requirements, please see: *www*

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

Emeritus Professors

Bruce Anderson; B.Arch.(McG.), M.Arch.(Harv.), F.R.A.I.C., O.A.Q.

Derek Drummond; B.Arch.(McG.), F.R.A.I.C., O.A.Q., O.A.A. (*William C. Macdonald Emeritus Professor of Architecture*)

ARCH 674	(3)	Professional Practice 1
ARCH 677	(9)	Architectural Design 3
ARCH 678	(3)	Advanced Construction
ARCH 680	(2)	Field Sketching

Complementary Courses

10-13 credits chosen from among the following:

ARCH 514	(4)	Community Design Workshop
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 528	(3)	History of Housing
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
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 542	(3)	Selected Topics in Architecture 3
ARCH 543	(3)	Selected Topics in Architecture 4
ARCH 604	(3)	Urban Design Seminar
ARCH 684	(4)	Contemporary Theory 1
ARCH 685	(4)	Contemporary Theory 2
URBP 555	(3)	Real Estate and Planning
URBP 651	(3)	Redesigning Suburban Space

Elective Courses

Up to 3 credits (at the 500 or 600 level) may be taken outside the School of Architecture, with the approval of an assigned faculty adviser.

Revision, May 2019. End of revision.

6.12.1.6 Master of Architecture (M.Arch.) Professional (Non-Thesis): Design Studio-Directed Research (60 credits)

Revision, May 2019. Start of revision.

The Directed Research concentration is a 60-credit four-term (Fall, Winter, Summer, Fall) program that complements the regular 45-credit three-term concentration with a supervised 12-credit individual research report in the summer term. This forms the basis of the terminal design studio in the fourth (Fall) term. Each student is assigned a faculty adviser in the second term and follows a research-intensive curriculum shaped by complementary and elective courses chosen in consultation with, and approved by, the adviser.

Required Courses (48 credits)

ARCH 551	(3)	Urban Design and Planning
ARCH 626	(4)	Critical Design Strategies
ARCH 672	(6)	Architectural Design 1
ARCH 673	(6)	Architectural Design 2
ARCH 674	(3)	Professional Practice 1
ARCH 676	(12)	Directed Research Report
ARCH 678	(3)	Advanced Construction

ARCH 711	(3)	Doctoral Proseminar 1
ARCH 712	(3)	Doctoral Proseminar 2
ARCH 721	(3)	Literature Review 1
ARCH 722	(3)	Literature Review 2
ARCH 723	(3)	Literature Review 3

Complementary Courses (9 credits)

Students must take 9 credits of courses at the 600 or 700 level, selected with the approval of the School.

Revision, April 2019. End of revision.

6.12.2 Bioengineering

6.12.2.1 Location

Department of Bioengineering
McConnell Engineering Building, Room 350
3480 University Street
Montreal QC H3A 0E9
Telephone: 514-398-7254
Email: *info.bioeng@mcgill.ca*
Website: *www.mcgill.ca/bioengineering*

6.12.2.2 About Bioengineering

The Department of Bioengineering, established in 2012, is the newest department to join McGill University’s renowned Faculty of Engineering. McGill researchers from nearly all f

Associate Professors

Allen Ehrlicher; B.Sc., B.A.(Texas-Austin), M.Sc., Ph.D.(Leipzig)

J. Matt Kinsella; B.Sc.(SXU, Chicago), M.S., Ph.D.(Purd.)

Georgios Mitsis; Dipl.(Nat. Tech., Athens), M.S.(Elect. Eng.), M.S.(Biomed. Eng.), Ph.D.(USC)

Assistant Professors

- cell mechanisms and the cytoskeleton;
- soft matter physics.

section 6.12.3.5: Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

The **Biological and Biomedical Engineering Master's program** focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes, including: biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, orthopedics, biological materials and mechanobiology, motor proteins and the cytoskeleton, biosensors and biological therapeutics, biological networks, and computational biology. BBME's internationally-renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals, and government and provide a solid basis for Ph.D. studies. Candidates should hold a Bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic biology (physiology, cell biology

Note: Applications for Summer term admission will not be considered.

6.12.3.4 Biological and Biomedical Engineering Faculty

Biological and Biomedical Engineering is an interfaculty program offered jointly by the *Department of Bioengineering* in the Faculty of Engineering and the *Department of Biomedical Engineering* in the Faculty of Medicine.

Please refer to *section 6.12.2.4: Bioengineering Faculty* and *section 11.12.5.4: Biomedical Engineering Faculty* for their respective faculty listings.

6.12.3.5 Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

The Biological and Biomedical Engineering (BBME) Master's program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment, and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering. BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes in biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics. BBME's internationally renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals and government and provide a solid basis for Ph.D. studies. Candidates should hold a bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic physiology or cell biology.

Thesis Courses (24 credits)

BBME 693	(6)	Thesis Research 1
BBME 694	(6)	Thesis Research 2
BBME 695	(12)	Thesis Submission

Required Courses (3 credits)

BBME 600D1	(1.5)	Seminars in Biological and Biomedical Engineering
BBME 600D2	(1.5)	Seminars in Biological and Biomedical Engineering

OR

BBME 600N1	(1.5)	Seminars in Biological and Biomedical Engineering
BBME 600N2	(1.5)	Seminars in Biological and Biomedical Engineering

Complementary Courses (18 credits)

3 credits from the following quantitative courses:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 520	(3)	High Throughput Bioanalytical Devices
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 550	(3)	Biomolecular Devices
BIEN 560	(3)	Biosensors
BIEN 570	(3)	Active Mechanics in Biology
BIEN 590	(3)	Cell Culture Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
BMDE 610	(3)	Functional Neuroimaging Fusion
BMDE 660	(3)	Advanced MR Imaging and Spectroscopy of the Brain

6 credits from the following:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 520	(3)	High Throughput Bioanalytical Devices
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 550	(3)	Biomolecular Devices
BIEN 560	(3)	Biosensors
BIEN 570	(3)	Active Mechanics in Biology
BIEN 590	(3)	Cell Culture Engineering
BIEN 680	(4)	Bioprocessing of Vaccines
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 508	(3)	Introduction to Micro and Nano-Bioengineering
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
BMDE 525D1	(3)	Design of Assistive Technologies: Principles and Praxis
BMDE 525D2	(3)	Design of Assistive Technologies: Principles and Praxis
BMDE 610	(3)	Functional Neuroimaging Fusion
BMDE 650	(3)	Advanced Medical Imaging
BMDE 653	(3)	Patents in Biomedical Engineering
BMDE 654	(3)	Biomedical Regulatory Affairs - Medical Devices
BMDE 655	(3)	Biomedical Clinical Trials - Medical Devices
BMDE 660	(3)	Advanced MR Imaging and Spectroscopy of the Brain
MDPH 607	(3)	Medical Imaging

9 credits at the 500-level or higher chosen from a list on the program web site https://www.mcgill.ca/bbme/students/courses or from other courses, at the 500 level or higher, at least 3 credits of which have both life sciences content and content from the physical sciences, engineering, or computer science, with the prior written approval of the Thesis Supervisor and the Graduate Program Director.

6.12.3.6 Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

BBME 701	(0)	Ph.D. Comprehensive Examination

Students must be registered in this course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

Further courses may be required by the supervisor(s) in consultation with the Graduate Program Director, depending on the educational background of individual students.

6.12.4 Chemical Engineering

6.12.4.1 Location

Department of Chemical Engineering
M.H. Wong Building
3610 University Street

- methane recovery, storage, and transportation using gas hydrates;
- oil and gas flow assurance;
- plasma technology to produce nanomaterials for energy conversion/storage devices.

Environmental engineering – Environmental engineering is the application of science and engineering principles to protect the environment and remediate 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;
- adv

6.12.4.3 Chemical Engineering Admission Requirements and Application Procedures

6.12.4.3.1 Admission Requirements

Admission to graduate studies requires a minimum CGPA of 3.0/4.0 (or equivalent) for the complete bachelor's program, or a minimum GPA of 3.2/4.0 (or equivalent) in the last two years of full-time studies in an undergraduate program. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must achieve a minimum *TOEFL* score of 90 on the Internet-based test (iBT), with each component score not less than 20, prior to admission.

M.Eng. (Thesis), M.Eng. (Non-Thesis)

Admission requires a bachelor's degree (or equivalent) in engineering or science disciplines.

Ph.D.

Admission requires a master's degree (or equivalent) from a recognized university. Students in the Department's M.Eng. (Thesis) program may petition to transfer to the Ph.D. program after one year without submitting the master's thesis following a formal "fast-track" procedure. At their request, applicants (without a master's degree) with exceptionally high Academic Standing and outstanding research potential will be considered for direct admission to the Ph.D. program.

6.12.4.3.2 Application Procedure

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

See *University Regulations & Resources* > *Graduate*

Professors

Sylvain Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), ing. (*Gerald Hatch Facullty Fellow*)

Richard L. Leask; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Tor.), P.Eng.

Milan Maric; B.Eng.Mgt.(McM.), Ph.D.(Minn.), P.Eng.

Jean-Luc Meunier; Dipl.Ing.(EPFL), M.Sc., Ph.D.(INRS, Queb.), ing.

Sasha Omanovic; Dipl.Ing., Dr.Sc.(Zagreb), P.Eng.

Alejandro D. Rey; B.Ch.E.(CCNY), Ph.D.(Calif.), F.R.S.C. (*James McGill Professor*)

Phillip Servio; B.A.Sc., Ph.D.(Br. Col.)

Nathalie Tufenkji; B.Eng.(McG.), M.Sc., Ph.D.(Yale), ing. (CRC-Tier I)

Viviane Yargeau; B.Ch.E., M.Sc.A., Ph.D.(Sher.), ing.

Associate Professors

Dimitrios Berk; B.Sc.(Bosphorus), M.E.Sc.(W. Ont.), Ph.D.(Calg.), P.Eng.

P.-Luc Girard-Lauriault; B.Sc.(Montr.), Ph.D.(École Poly., Montr.)

Reghan James Hill; B.E.(Auck.), Ph.D.(Cornell)

Anne-Marie Kietzig; Dipl.Ing.(TU Berlin), Ph.D.(Br. Col.), ing.

Assistant Professors

Noémie Dorval Courchesne; B.Sc., B.A. & Sc.(Ott.), Ph.D.(MIT)

Corinne Hoesli; B.Sc., B.A.Sc.(Ott.), Ph.D.(Br. Col.), ing.

Jan Kopyscinski; Dipl.Ing.(BTU Cottbus), Dr.Sc.(ETH Zurich)

Christopher Moraes; B.A.Sc., Ph.D.(Tor.), P.Eng.

Ali Seifitokaldani; B.Sc., M.Sc. (Amirkabir), Ph.D. (UdeM)

6.12.4.5 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 (4 credits)

CHEE 681	(1)	Laboratory Safety 1
CHEE 682	(1)	Laboratory Safety 2
CHEE 687	(2)	Research Skills and Ethics

Complementary Courses (10 credits)

4 credits from the following:

CHEE 611	(4)	Heat and Mass Transfer
CHEE 621	(4)	Thermodynamics
CHEE 631	(4)	Foundations of Fluid Mechanics
CHEE 641	(4)	Chemical Reaction Engineering
CHEE 651	(4)	Advanced Biochemical Engineering
CHEE 662	(4)	Computational Methods

CHEE 672	(4)	Process Dynamics and Control

A minimum of 3 credits of Chemical Engineering courses at the 500, 600, or 700 level.

Any remaining complementary course credit requirements may be fulfilled by completing Chemical Engineering or other Engineering or Science courses at the 500, 600, or 700 level.

6.12.4.6 Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis) (45 credits)

Research Project

Project (design or research): 6-12 credits.

6 credits must include the following course:

CHEE 695	(6)	Project in Chemical Engineering

Complementary Courses

33-39 credits (a minimum of 18 credits in Chemical Engineering) at the 500, 600, or 700 level.

9 credits must be in an area of concentration.

12 additional courses at the 500, 600, or 700 level.

6.12.4.7 Master of Engineering (M.Eng.) Chemical Engineering (Non-Thesis): Environmental Engineering (45 credits)

This program is currently not accepting applicants.

Research Project (6 credits)

CHEE 695	(6)	Project in Chemical Engineering

Required Courses (6 credits)

CHEE 591	(3)	Environmental Bioremediation
CIVE 615	(3)	Environmental Engineering Seminar

Complementary Courses (22 credits)

Minimum of 22 credits

Data analysis course: (3 credits)

AEMA 611	(3)	Experimental Designs 1
CIVE 555	(3)	Environmental Data Analysis
PSYC 650	(3)	Advanced Statistics 1

Toxicology: (3 credits)

OCCH 612	(3)	Principles of Toxicology
OCCH 616	(3)	Occupational Hygiene

Water pollution engineering: (4 credits)

CIVE 651	(4)	Theory: Water / Wastewater Treatment
CIVE 652	(4)	Bioprocesses for Wastewater Resource Recovery

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: The number of credits taken will depend on how many of these courses have been taken during the M.Eng. program. Three courses from the above list must be taken during the M.Eng.and/or Ph.D. program. If not taken during the M.Eng. program, they must be taken during the Ph.D. program.

6.12.5 Civil Engineering and Applied Mechanics

6.12.5.1 Location

Department of Civil Engineering and Applied Mechanics
Macdonald Engineering Building, Room 492
817 Sherbrooke Street West
Montreal QC H3A 0C3
Canada
Telephone: 514-398-6858
Fax: 514-398-7361
Email: *gradinfo.civil@mcgill.ca*
Website: *www.mcgill.ca/civil*

6.12.5.2 About Civil Engineering and Applied Mechanics

Advanced courses of instruction and laboratory facilities are available for Engineering graduate students who wish to proceed to the degrees of **M.Eng.**, **M.Sc.**, and **Ph.D.**

Graduate studies and research are at present being conducted in the fields of structures and structural mechanics; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

M.Eng. in Civil Engineering

The master'ii1 91r4Tj/F3(e)Tj1 0 0 1 67.52 61r,.1 0s of si nTj1p inue fiaundh are at p/F3(e)Tj1 0678.321 52 61r,.1 0s of s(urseis) eeraundhof ins0 1 396.303 388.135 52

section 6.12.5.8: Master of Engineering (M.Eng.) Civil Engineering (Non-Thesis): Environmental Engineering (45 credits)

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 6.12.5.9: Doctor of Philosophy (Ph.D.) Civil Engineering

Associate Chair

Required Course

1 credit:

CIVE 662	(1)	Master's (Thesis) Research Seminar

Complementary Courses (17 credits)

(minimum 17 credits)

A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

6.12.5.6 Master of Science (M.Sc.) Civil Engineering (Thesis) (45 credits)

Thesis Courses (27 credits)

CIVE 630	(3)	Thesis Research 1
CIVE 631	(3)	Thesis Research 2
CIVE 632	(3)	Thesis Research 3
CIVE 633	(6)	Thesis Research 4
CIVE 634	(6)	Thesis Research 5
CIVE 635	(6)	Thesis Research 6

Required Course

1 credit:

CIVE 662	(1)	Master's (Thesis) Research Seminar

Complementary Courses (17 credits)

Environmental/Hydraulics-Water Resources

CIVE 555	(3)	Environmental Data Analysis
CIVE 572	(3)	Computational Hydraulics
CIVE 584	(3)	Mechanics of Groundwater Flow
CIVE 651	(4)	Theory: Water / Wastewater Treatment
CIVE 677	(4)	Water-Energy Sustainability

Transportation

CIVE 540	(3)	Urban Transportation Planning
CIVE 542	(3)	Transportation Network Analysis
CIVE 560	(3)	Transportation Safety and Design
CIVE 609	(4)	Risk Engineering

List B: Other Complementary Courses from the Department

0-30 credits

Courses from List A that are not used to fulfill the 15 credits requirement of Research Courses can be used also as complementary courses.

CIVE 520	(3)	Groundwater Hydrology
CIVE 521	(3)	Nanomaterials and the Aquatic Environment
CIVE 527	(3)	Renovation and Preservation: Infrastructure
CIVE 550	(3)	Water Resources Management
CIVE 551	(3)	Environmental Transport Processes
CIVE 557	(3)	Microbiology for Environmental Engineering
CIVE 558	(3)	Biomolecular Techniques for Environmental Engineering
CIVE 561	(3)	Urban Activity, Air Pollution, and Health
CIVE 573	(3)	Hydraulic Structures
CIVE 574	(3)	Fluid Mechanics of Water Pollution
CIVE 577	(3)	River Engineering
CIVE 604	(4)	Theory of Plates and Shells
CIVE 605	(4)	Stability of Structures
CIVE 607	(4)	Advanced Design in Steel
CIVE 612	(4)	Earthquake-Resistant Design
CIVE 614	(4)	Composites for Construction
CIVE 615	(3)	Environmental Engineering Seminar
CIVE 616	(4)	Nonlinear Structural Analysis for Buildings
CIVE 617	(4)	Design and Rating of Highway and Railway Bridges
CIVE 618	(4)	Design in Concrete 1
CIVE 622	(4)	Prestressed Concrete
CIVE 624	(4)	Durability of Structures
CIVE 625	(4)	Condition Assessment of Existing Structures
CIVE 628	(4)	Design of Wood Structures
CIVE 637	(4)	Discrete Choice Modeling in Transportation
CIVE 652	(4)	Bioprocesses for Wastewater Resource Recovery

CIVE 660	(4)	Chemical and Physical Treatment of Waters
CIVE 661	(4)	Modelling of Transportation Emissions
CIVE 663	(4)	Environmental Fate of Organic Chemicals
CIVE 683	(4)	Advanced Foundation Design
CIVE 686	(4)	Site Remediation

Project Courses

0 or 5-15 credits

Credits for a program may vary, depending on the amount of work involved. Project courses are chosen from the following:

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

Graduate courses from other McGill Engineering Departments are also allowed as complementary courses. A maximum of 1/3 of coursework credits can be taken outside McGill. Approval is required from the Department in both cases.

6.12.5.8 Master of Engineering (M.Eng.) Civil Engineering (Non-Thesis): Environmental Engineering (45 credits)

The program consists of a minimum of 45 credits, of which, depending on the student's home department, a minimum of 5 and a maximum of 15 may be allotted to the research project. The balance of 30 to 40 credits is earned by coursework. The Department also allows students to complete the program using a minimum of 45 credits of coursework only.

The Environmental Engineering option is administered by the Faculty of Engineering. Further information may be obtained from the Program Coordinator, Department of Civil Engineering and Applied Mechanics.

Research Project

(0 or 5-15 credits)

The program may include a project or, with Departmental approval, may be completed with courses only.

Required Courses (6 credits)

CHEE 591	(3)	Environmental Bioremediation
CIVE 615	(3)	Environmental Engineering Seminar

Complementary Courses

(24-39 credits)

a minimum of 22 credits chosen from the following:

Data analysis:

AEMA 611	(3)	Experimental Designs 1
CIVE 555	(3)	Environmental Data Analysis
PSYC 650	(3)	Advanced Statistics 1

Toxicology:

OCCH 612	(3)	Principles of Toxicology

Water pollution engineering:

CIVE 651	(4)	Theory: Water / Wastewater Treatment
CIVE 652	(4)	Bioprocesses for Wastewater Resource Recovery
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.

Doctor of Philosophy (Ph.D

3480 University Street
Montreal QC H3A 0E9
Canada
Telephone: 514-398-7344 or 514-398-1406
Email: *grad.ece@mcgill.ca*
Website: *www.mcgill.ca/ece*

6.12.6.2 About Electrical and Computer Engineering

The Department offers programs of graduate studies leading to a degree of **Master of Engineering** (thesis or project/non-thesis) or **Doctor of Philosophy**.

The research interests and facilities of the Department are very extensive, involving more than 50 faculty members and 300 postgraduate students. The major activities are divided into the following groups:

- Bioelectrical Engineering;
- Telecommunications and Signal Processing;
- Systems and Control;
- Integrated Circuits and Systems;
- Nano-Electronic Devices and Materials;
- Photonic Systems;
- Computational Electromagnetics;
- Power Engineering;
- Intelligent Systems;
- Software Engineering.

The Department is equipped with state-of-the-art experimental laboratories and there are numerous multidisciplinary research projects, so students are provided with an ideal environment to develop new technologies, discover novel phenomena, and design revolutionary devices.

Research Facilities

The Department has extensive laboratory facilities for all its main research areas. In addition, McGill University often collaborates with other institutions for teaching and research.

- The laboratories for research in Robotics, Control, and Vision are in the *Centre for Intelligent Machines* (CIM).
- Telecommunications laboratories focus their work on signal processing, broadband communications, and networking; these laboratories form part of the *Centre for Advanced Systems and Communications* (SYTACom), a McGill University Research Centre devoted to fostering innovation in the area of communications systems and technologies via advanced research and train741 e

Teaching Assistantships: Graduate students, with the approval of their supervisors, may also undertake teaching assistantships for additional remuneration.

- Area of Research and Applicant Profile Form – available at *www.mcgill.ca/ece/admissions/graduate/apply*
- *GRE* – the General Aptitude Test is optional.

6.12.6.3.3 Application Dates and Deadlines

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

Professors

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.) ing.

James Clark; B.Sc., Ph.D.(Br. Col.) (*Currently on sabbatical 2019-2020*) P.Eng.

Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.) P.Eng.

Jeremy R. Cooperstock; A.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.) ing.Jr.

Frank Ferrie; B.Eng., Ph.D.(McG.) P.Eng.

Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.) *(Louis-Ho Faculty Scholar in Technological Innovation)* P.Eng.

Geza Joos; B.Sc.(C'dia), M.Eng., Ph.D.(McG.) (*CRC Chair*) P.Eng.

Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.), P.Eng. (*James McGill Professor*) (*Currently on sabbatical 2019-2020*)

Fabrice Labeau; M.S., Ph.D.(Louvain) (*Interim Deputy Provost, Student Life and Learning (SLL)*) P.Eng.

Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)

Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F

Assistant Professors

Songrui Zhao; B.Sc.(Chu Ke-Chen), Ph.D.(Zhejiang), Ph.D.(McG)

Marcello Colombino; M.Eng.(Imperial Coll.), Ph.D.(ETH Zurich),

AJung Moon; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Br.Col.)

Boris Vaisband; B.S.(Technion), M.S., Ph.D.(Roch.)

Associate Members

Matthew Adam Dobbs; B.Sc. (McG.), Ph.D.(Vic., BC)

Gregory Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.)

Alan C. Evans; M.Sc.(Sur.), Ph.D.(Leeds)

William R. Funnell; M.Eng., Ph.D.(McG.)

David Juncker; Ph.D.(Neuchâtel)

Nathaniel J. Quitoriano; B.S.(Calif., Berk.), Ph.D.(MIT)

Adjunct Professors

Rhys Allan Adams, Donald Davis, Tiago H. Falk, Vincent Hayward, Mehrsan Javan-Roshtkhari, Innocent Kamwa, Marthe Kassouf, Morgan McGuire, Zetian Mi, Frédéric Nabki, Douglas O'Shaughnessy, Michael Rabbat, Joseph J. Schlesinger, Joshua David Schwartz, Kenneth D. Wagner, Qunbi Zhuge

6.12.6.5 Master of Engineering (M.Eng.) Electrical Engineering (Thesis) (46 credits)

The M.Eng. in Electrical Engineering (thesis option) involves 18 graduate level course credits and an externally examined thesis. The program is research oriented and the thesis is expected to involve a thorough examination of a topic of current interest in the research area within the Department. Undertaking this program at McGill University provides students with an opportunity to conduct intensive research under the supervision of researchers who are leaders in their field. The program is an ideal preparation for a Ph.D. degree or an industrial research career.

The M.Eng. Thesis program must be completed on a full-time basis in three years. The following requirements must be met:

Thesis Courses (28 credits)

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 of 500-, 600-, or 700-level courses, of which no more than 6 credits may be outside the Department.*

* Non-departmental courses require Departmental approval. Students may be allowed to take more than 6 credits of non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

6.12.6.6 Master of Engineering (M.Eng.) Electrical Engineering (Non-Thesis) (45 credits)

The M.Eng. in Electrical Engineering (project option) involves an internally examined research project in addition to 27 graduate level course credits. The program is oriented more towards professional development than the thesis option. The project is of significantly less scope than a thesis, and includes options such as a technical review, a design project, or a small-scale research project. Undertaking 27 course credits provides students with a very solid background in electrical and computer engineering, both in terms of breadth across the entire field and depth in the area of specialty. Graduates frequently pursue careers in research and development. A part-time program is possible.

Research Project (18 credits)

ECSE 651	(1)	M.Eng. Project 1

ECSE 652	(2)	M.Eng. Project 2
ECSE 653	(3)	M.Eng. Project 3
ECSE 654	(4)	M.Eng. Project 4
ECSE 655	(4)	M.Eng. Project 5
ECSE 656	(4)	M.Eng. Project 6

Students who choose the non-thesis option must register for the project courses during the three required terms of residency.

Complementary Courses (27 credits)

27 credits of 500-, 600-, or 700-level courses, of which no more than 9 credits may be outside the Department.

* Non-departmental courses require Departmental approval. Students may be allowed to take more than 9 credits of non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

6.12.6.7 Doctor of Philosophy (Ph.D.) Electrical Engineering

Thesis

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

Required Courses

ECSE 701	(0)	Ph.D. Qualifying Examination
ECSE 702	(0)	Ph.D. Research Plan Proposal
ECSE 703	(0)	Doctoral Research Seminar

In addition to the successful completion of the required courses above, students must complete the courses prescribed by the student's Supervisory Committee.

6.12.7 Mechanical Engineering

6.12.7.1 Location

Department of Mechanical Engineering
Macdonald Engineering Building
817 Sherbrooke Street West, Room MD-270
Montreal QC H3A 0C3
Canada
Telephone: 514-398-8869 or 514-398-6281
Fax: 514-398-7365
Email: *grad.mecheng@mcgill.ca*
Website: *www.mcgill.ca/mecheng/grad*

6.12.7.2 About Mechanical Engineering

Mechanical engineers are traditionally concerned with the conception, design, implementation, and operation of mechanical systems. Common fields of work include aerospace, energy, manufacturing, machinery, and transportation. Due to the broad nature of the discipline, there is usually a high demand for mechanical engineers with advanced training.

The Department includes more than 30 faculty members and 200 graduate students, and is housed primarily within the recently renovated Macdonald Engineering building. The Department contains state-of-the-art experimental facilities (including a major wind tunnel facility) and has extensive computational facilities. Professors within the Department collaborate widely with professors in other units, often through research centres including the Centre for Intelligent Machines (CIM); the McGill Institute for Advanced Materials (MIAM); and the Montreal Neurological Institute and Hospital (MNI). The research interests within the Department are very broad and fall largely within the following seven areas:

- Aerodynamics and fluid mechanics
- Bioengineering
- Combustion and energy systems

- Design and manufacturing
- Dynamics and control
- Materials and structures
- Vibrations, acoustics, and fluid-structure

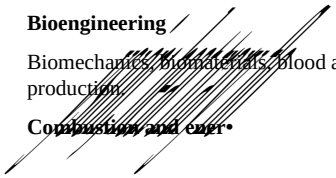
Within these areas, specific topics of research are given in the following:

Aerodynamics and fluid mechanics

Experimental fluid mechanics and aerodynamics, aeroelasticity, and aeroacoustics; theoretical fluid mechanics; turbulence; mixing in turbulent flows; fluid flow control; fluid-structure interactions; computational fluid dynamics, multidisciplinary optimization, and computer flow visualization; heat transfer; combustion, shock wave physics, energetic materials, high-speed reacting flows, hypersonic propulsion, and alternative fuels.

Bioengineering

Biomechanics, biomaterials, blood and respiratory flows, mechanics of soft tissues, cardiovascular devices, image processing for medical diagnostics, voice production.



Combustion and ener•

section 6.12.7.7: Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)

The M.Eng. (Aerospace) program requires both coursework and an "Industrial Stage" (i.e., engineering work in an aerospace industry) of four months. Enrolment is limited to the number of industrial stages available, so admission to the program is typically quite competitive. While intended to be a full-time program, the M.Eng. Aerospace program may be completed on a part-time basis over a maximum of five years. By the time of completion of the program, graduates are extremely well-prepared to enter into a career in the aerospace industry.

Depending on their background, students would specialize in one of the four areas:

1. Aeronautics and Space Engineering
2. Avionics and Control
3. Aerospace Materials and Structures
4. Virtual Environment

section 6.12.7.8: Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

This program is currently not offered

The Master in Manufacturing Management (M.M.M.) program attracts business professionals from around the world who wish to pursue a career in the effective management of global operations and supply chain. It is a professionally-oriented graduate program offered jointly through the Faculties of Engineering and Management, aimed at those candidates with engineering or science backgrounds.

In just eleven months of academic studies, M.M.M. students sharpen their expertise in supply chain and operations through an intensive program that includes:

- A challenging curriculum
- Extensive industrial interaction
- Innovative research projects

Additionally, students are exposed to the latest trends and developments in management and participate in professional development seminars to leverage their communication and leadership skills. After less than one year of studies, participants complete a paid work term at an industrial location. This is a unique opportunity to work on a real-world project with an M.M.M. partner company in North America.

section 6.12.7.9: Master of Science (M.Sc.) Mechanical Engineering (Thesis) (45 credits)

Please consult the Department for more information on this program.

section 6.12.7.10: Doctor of Philosophy (Ph.D.) Mechanical Engineering

In the Ph.D. program, students are required to demonstrate a significant new contribution to their field of research, as documented in an externally reviewed thesis. The research is carried out under the supervision of professors who are leaders in their field. Since research in Mechanical Engineering is often interdisciplinary in nature, it is common for Ph.D. students to have a co-supervisor in addition to their principal supervisor. Graduates from this program typically proceed to careers in research in either industrial or academic environments.

6.12.7.3 Mechanical Engineering Admission Requirements and Application Procedures

6.12.7.3.1 Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply. Candidates who come from other institutions are expected to have an academic background equivalent to the undergraduate curriculum in mechanical engineering at McGill or to make up any deficiencies in a Qualifying year.

Applicants to the M.Eng. (Thesis) program must hold an undergraduate degree (or equivalent) in Engineering. Applicants who hold an undergraduate degree in a non-Engineering discipline—typically the Physical Sciences—may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

Applicants to the M.Eng. (Non-Thesis) program must hold an undergraduate degree (or equivalent) in Mechanical Engineering.

Applicants to the M.Eng. (Aerospace) program must hold an undergraduate degree (or equivalent) in Engineering. Applicants must be proficient in French.

Applicants to the Ph.D. program must have successfully completed a master's degree program (or equivalent) in Engineering or the Physical Sciences. In exceptional circumstances, students with outstanding performance at the bachelor's level may be offered direct entry into the Ph.D. program (Ph.D. 1).

In the case of all programs, applicants must have successfully completed their prior degree(s) with a minimum CGPA equivalent to 3.3 on a scale of 4.0. Satisfaction of these minimum requirements does not guarantee admission. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit official results of either a *TOEFL* or an *IELTS* test. The minimum score required is 92 for the Internet-based TOEFL test, with each component score not less than 20, or a minimum overall band of 7.0 on the IELTS test.

6.12.7.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *se2o.,c1.4.3r*

Associate Professors (Post-Retirement)

Vince Thomson; B.Sc.(Windsor), Ph.D.(McM.)

Paul J. Zsombor-Murray; B.Eng., M.Eng., Ph.D.(McG.), ing., F.C.S.M.E.

Professors

Marco Amabili; M.Sc.(Ancona), Ph.D.(Bologna), F.A.S.M.E. (*Canada Research Chair*)

Bantwal R. Baliga; B.Tech.(I.I.T. Kanpur), M.Sc.(Case West.), Ph.D.(Minn.)

François Barthelat; M.Sc.(Roch.), Ph.D.(N'western)

David L. Frost; B.A.Sc.(Br. Col.), M.S., Ph.D.(Calif. Tech.), P.Eng.

Wagdi G. Habashi; B.Eng., M.Eng.(McG.), Ph.D.(Cornell), ing., F.A.S.M.E., F.A.I.A.A., F.C.A.E., F.R.S.C. (*NSERC; Lockheed Martin; Bell Helicopter*

Adjunct Professors

Xinyu Liu; B.Eng., M.Eng.(Harbin Inst. Tech.), Ph.D.(Tor.)

Mouhab Meshreki; B.Sc., M.Sc.(AUC), Ph.D.(McG.)

Course Lecturers

Marwan Kanaan

Richard Klopp

Alexei Morozov

Amar Sabih

Associate Members

Jake Barralet

Renzo Cecere

Allen Ehrlicher

Dan Nicolau

Abdolhamid Akbarzadeh Shafaroudi

6.12.7.5 Master of Engineering (M.Eng.) Mechanical Engineering (Thesis) (45 credits)

MECH 605	(4)	Applied Mathematics 1
MECH 610	(4)	Fundamentals of Fluid Dynamics
MECH 632	(4)	Advanced Mechanics of Materials
MECH 642	(4)	Advanced Dynamics

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering may be selected by the student, based on interest and the choice of area of concentration. Courses at the graduate level from other faculties may also be taken, with prior approval from the student's project supervisor and the Graduate Program Director. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

6.12.7.7 Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)

The M.Eng. Aerospace Degree is offered to the students who wish to specialize in the general area of aerospace engineering. This degree is given in conjunction with Concordia University, École Polytechnique, Université Laval, Université de Sherbrooke, and École de Technologie Supérieure. Students registered at McGill are required to take two courses from two other institutions.

Depending on their background, students would specialize in one of the four areas:

1. Aeronautics and Space Engineering

2. Avionics and Control

3. Aerospace Materials and Structures

4. Virtual Environment

Required Courses (9 credits)

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.

6.12.7.8 Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

This program is currently not offered.

We are in the process of revising the curriculum of the program to enhance its quality and relevance, while keeping the focus still on designing and managing global supply chains for manufacturing and service organizations.

Required Courses (30 credits)

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
		Logist1 0 luMm(2A w)Tj1 0 0 1sv3 T

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

6.12.7.9 Master of Science (M.Sc.) Mechanical Engineering (Thesis) (45 credits)

Applicants who hold an undergraduate degree in a non-Engineering discipline – typically the Physical Sciences – may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

Thesis Courses (28 credits)

MECH 691*	(3)	M.Eng. Thesis Literature Review
MECH 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) from the Faculty of Engineering or Faculty of Science, at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

6.12.7.10 Doctor of Philosophy (Ph.D.) Mechanical Engineering

Candidates normally register for the M.Eng. degree in the first instance. However, in exceptional cases where the research work is proceeding very satisfactorily, or where the equivalent of the M.Eng. degree has been completed at another university, candidates may be permitted to proceed directly to the Ph.D. degree without submitting a master's thesis as long as they have satisfied the course requirements for the M.Eng. degree.

Thesis

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

Required Courses

MECH 700	(0)	Ph.D. Literature Review
MECH 701	(0)	Ph.D. Thesis Proposal
MECH 702	(0)	Ph.D. Comprehensive Preliminary Oral Examination

6.12.8 Mining and Materials Engineering

6.12.8.1 Location

Department of Mining and Materials Engineering
M.H. Wong Building
3610 University Street
Montreal QC H3A 0C5
Canada
Email: *barbara.hanley@mcgill.ca*
Website: *www.mcgill.ca/minmat*

Mining Engineering
Telephone: 514-398-2215
Fax: 514-398-7099

Materials Engineering
Telephone: 514-398-4383
Fax: 514-398-4492

6.12.8.15 Academic Staff (Mining Engineering)

- Mine Safety
- Mine Ventilation
- Renewable Energy
- Mineral Economics
- Materials Handling
- Environmental Engineering

Materials Engineering

- Process Metallurgy
- Computational Thermodynamics
- Effluent and Waste Treatment
- Mineral Processing
- Metal Casting and CFD Modelling
- Surface Engineering and Coatings
- Additive Manufacturing and Powder Metallurgy
- Ceramics
- Electron Microscopy
- Automotive and Aerospace Materials
- Biomaterials
- Nanomaterials and Nanoelectronic Materials
- Multiscale Modelling of Materials
- Electronic and Solar Cell Materials
- Environmental Engineering

Research Degrees

section 6.12.8.5: Master of Engineering (M.Eng.) Materials Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Materials Engineering (Thesis) program.

section 6.12.8.6: Master of Engineering (M.Eng.) Mining Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Mining Engineering (Thesis) program.

section 6.12.8.7: Master of Science (M.Sc.) Materials Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Sc. Materials Engineering (Thesis) program.

section 6.12.8.8: Master of Science (M.Sc.) Mining Engineering (Thesis) (45 credits)

Please consult the Department for more information about the M.Sc. Mining Engineering (Thesis) program.

Direct Transfer from a Master's to a Ph.D. – Students enrolled in a master's program (thesis) may transfer into the Ph.D. program without obtaining a master's degree if they have:

1. an excellent academic standing for their undergraduate degree;
2. been in the master's program for less than 12 months;
3. passed with the minimum CGPA of 3.6 at least three of the required master's courses, and given one seminar with a minimum grade of A-;
4. made good progress with their research;
5. obtained a strong letter of recommendation from their supervisor.

Direct Entry from B.Eng. to Ph.D.

Exceptional B.Eng. and B.Sc. graduates may be admitted directly to the Ph.D. program. The Ph.D. 1 students admitted through this process are required to complete at least four graduate-level courses.

M.Eng. (Project) Degrees

section 6.12.8.9: Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Materials Engineering (Project) program.

section 6.12.8.10: Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis): Environmental Engineering (45 credits)

Please consult the Department for more information about the M.Eng. Materials Engineering (Non-Thesis) program.

section 6.12.8.11: Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis) (45 credits)

Please consult the Department for more information about the M.Eng. Mining Engineering (Project) program.

section 6.12.8.12: Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis): Environmental Engineering (45 credits)

Please consult the Department for more information about the M.Eng. Mining Engineering (Non-Thesis) program.

section 6.12.8.13: Doctor of Philosophy (Ph.D.) Materials Engineering

Please consult the Department for more information about the Ph.D.

section 6.12.8.14: Doctor of Philosophy (Ph.D.) Mining Engineering

Please consult the Department for more information about the Ph.D.

section 6.12.8.15: Graduate Diploma (Gr. Dip.) 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.

6.12.8.3 Mining and Materials Engineering Admission Requirements and Application Procedures

6.12.8.3.1 Admission Requirements

The **Graduate Diploma in Mining Engineering** is open to graduates with suitable academic standing in any branch of engineering or science. It is designed to provide a sound technical mining engineering background to candidates intending to work in the minerals industry.

The **M.Eng. (Thesis)** degree is open to graduates holding the B.Eng. degree or its equivalent in Materials Engineering, Mining Engineering, or other related engineering fields.

The **M.Sc. (Thesis)** degree is open to graduates holding the B.Sc. degree in Chemistry, Materials Science, Physics, Geology, or related fields.

The **Master of Engineering (Project) (Materials option)** is primarily designed to train people with appropriate engineering or scientific backgrounds to allow them to work effectively in the metals and materials industries. Industrial experience is favourably viewed for entrance into the program, but is not considered a necessity.

The **Master of Engineering (Project) (Mining option)** is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics. Students without this academic training must complete a Qualifying term. Industrial experience is favourably viewed for entrance into the program, but is not considered a necessity.

The Master of Engineering (Project) (Environmental Engineering option) is also offered.

Ph.D. degree applicants may either be “directly transferred” from the M.Eng. or M.Sc. program (see below) or hold an acceptable master's degree in Materials Engineering, Mining Engineering, or other related fields, or under exceptional circumstances may be admitted directly from the bachelor's degree. In the latter case they are admitted to Ph.D. 1 as opposed to those holding a master's degree, who are admitted to Ph.D. 2.

6.12.8.3.2 Application Procedures

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

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

6.12.8.3.3 Application Dates and Deadlines

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

A

Associate Professors

Mainul Hasan; B.Eng.(Dhaka), M.Eng.(Dhahran), Ph.D.(McG.)

Mustafa Kumral; B.Eng.(Hacettepe), M.Eng.(Cukurova), Ph.D.(Leeds), P.Eng.

Showan Nazhat; B.Eng., M.Sc., Ph.D.(Lond.), P.Eng.

Sidney Omelon; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Mihriban Pekguleryuz; B.Sc., M.Eng.(Flor.), Ph.D.(McG.), Eng.

Nathaniel Quitoriano; B.S.(Calif., Berk.), Ph.D.(MIT), P.Eng.

Jun Song; B.Sc.(USTC), M.Sc., Ph.D.(Princ.), P.Eng.

Kristian Waters; M.Eng., M.Sc.(UMIST), Ph.D.(Birm.), P.Eng.

Assistant Professor

Alexandros Charitos; Dipl. Eng. (NTU Athens), Ph.D.(Stuttgart)

Alessandro Navarra; B.Eng (McG.), Ph.D. (École Poly., Montr.)

Agus Pulung Sasmito; B.Eng.(Univ. Gadjah Mada), Ph.D.(NUS)

Adjunct Professors

Salim Brahimi, Michel Gamache, Tassos Grammatikopoulos, Xueqiu He, Ahmad Hemami, In-Ho Jung, Luis Javier Montiel Petro, Jan Nesset, Priti Wanjara, Karim Zaghib, Behnam Ashrafi

Senior Faculty Lecturer

Florence Paray; B.Eng.(CSP), M.Eng., Ph.D.(McG.), Eng.

Course Lecturers – Mining

Yves Buro

Jeffrey Davidson

Jeff Cassoff

Shahe Shnorhokian

Co-op Program Liaison Officers

Genevieve Snider (*Materials*)

Lisa Thiess (*Mining*)

6.12.8.5 Master of Engineering (M.Eng.) Materials Engineering (Thesis) (45 credits)

** NEW PR

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 Courses (9 credits)

MIME 601	(0)	Engineering Laboratory Practice
MIME 610D1	(1.5)	Master's Foundation Course
MIME 610D2	(1.5)	Master's Foundation Course
MIME 670	(6)	Research Seminar 1

Complementary Courses (9 credits)

9 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

6.12.8.8 Master of Science (M.Sc.) Mining Engineering (Thesis) (45 credits)

** NEW PROGRAM **

The M.Sc. in Mining Engineering (Thesis) develops fundamental knowledge emphasizing practical applications and functional skills needed for solving mining engineering problems. This M.Sc. program is oriented towards individuals who intend to develop a career in mining engineering research. The candidates with a Bachelor's degree in a relevant discipline other than Engineering (ex: Science and Arts) may be accepted into the M.Sc. program.

Thesis Courses (27 credits)

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 Courses (6 credits)

MIME 601	(0)	Engineering Laboratory Practice

6 credits from the following:

MIME 672D1*	(3)	Rock Mechanics Seminar
MIME 672D2*	(3)	Rock Mechanics Seminar
MIME 673	(6)	Mining Engineering Seminar

* Note: Students must register for MIME 672D1 and MIME 672D2 in consecutive terms.

Complementary Courses (12 credits)

12 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

6.12.8.9 Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis) (45 credits)

** NEW PROGRAM **

The Master of Engineering in Materials Engineering: Non-Thesis program is primarily designed to train people with appropriate engineering or scientific background to allow them to work effectively in the materials industries.

Research Project (15 credits)

MIME 680	(6)	Materials Engineering Project 1
MIME 681	(6)	Materials Engineering Project 2
MIME 682	(3)	Materials Engineering Project 3

Required Courses (6 credits)

MIME 601	(0)	Engineering Laboratory Practice
MIME 670	(6)	Research Seminar 1

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One of the following courses:

CIVE 651	(4)	Theory: Water / Wastewater Treatment
CIVE 652	(4)	Bioprocesses for Wastewater Resource Recovery
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 Materials Engineering is the following:

MIME 681	(6)	Materials Engineering Project 2

6.12.8.11 Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis) (45 credits)

The Master of Engineering in Mining: Non-Thesis program is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics.

Research Project (15 credits)

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)

MIME 601	(0)	Engineering Laboratory Practice

MIME 673	(6)	Mining Engineering Seminar

Complementary (24 credits)

12 credits of MIME courses at the 500 level or higher.

12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Adviser.

6.12.8.12 Master of Engineering (M.Eng.) Mining Engineering (Non-Thesis): Environmental Engineering (45 credits)

** NEW PROGRAM **

Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in the 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

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)	Bioprocesses for Wastewater Resource Recovery
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

Soil and Water Quality Management Course

3-4 credits from the following:

BREE 533	(3)	Water Quality Management
CIVE 686	(4)	Site Remediation

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.

Environmental Policy Course

3 credits from the following:

URBP 506	(3)	Environmental Policy and Planning

or 3 credits approved at the 500-, 600-, or 700-level alternative.

Elective Courses (11 credits)

(minimum 10 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 Engineering is the following:

MIME 629	(6)	Mineral Engineering Project 2

6.12.8.13 Doctor of Philosophy (Ph.D.) Materials Engineering

** NEW PROGRAM **

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department,

selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course, and take a preliminary examination within their first year of Ph.D. study.

The candidate must submit an acceptable thesis based upon successfully completed research and must satisfy the examiners in an oral examination of the thesis.

Thesis

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

Required Courses (9 credits)

MIME 601	(0)	Engineering Laboratory Practice
MIME 701	(0)	Ph.D. Thesis Research Proposal
MIME 703	(0)	Ph.D. Comprehensive Exam
MIME 710D1	(1.5)	Ph.D. Foundation Course
MIME 710D2	(1.5)	Ph.D. Foundation Course
MIME 771	(6)	Research Seminar 2

Complementary Courses (6 credits)

6 credits of courses at the 500 level or higher, approved by their supervisor.

6.12.8.14 Doctor of Philosophy (Ph.D.) Mining Engineering

** NEW PROGRAM **

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department, selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course and, take a preliminary examination within their first year of Ph.D. study.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous w

environmentally sustainable. A key feature of planning education is learning to view issues in a multidisciplinary way, to manage processes of collaboration and of conflict, and to generate equitable and efficient solutions to complex problems of urban development.

McGill University was the first institution in Canada to offer a full-time planning program starting in 1947. In 1972, the School of Urban Planning was created as a separate academic unit within the Faculty of Engineering. It shares a heritage building with the School of Architecture, right on the main open space of McGill's Downtown campus. The primary objective of the **Master of Urban Planning** program is to educate professional urban planners for leadership in the public, private, and not-for-profit sectors. We rely in large part on project-based learning. The program also puts great emphasis on students doing policy-relevant research.

The School's teaching and research activities pertain primarily to community planning; environmental policy and planning; international development planning; land-use planning and regulation; transportation and infrastructure planning; and urban design. These activities, which are conducted for the purpose of promoting better decision-making and improving human environments, often take place in partnership with other McGill departments (notably Architecture, Civil Engineering, Geography, and Law) and with units at other institutions in Montreal, across Canada, and abroad. The School uses Montreal and its region as its main teaching laboratory.

McGill's School of Urban Planning has a strong track record of contributing to the community and to the profession. It works with civil society as well as with government, at home and abroad, to understand urban challenges and to formulate policies and plans to meet them.

Master of Urban Planning (M.U.P.) Program

The Master of Urban Planning (M.U.P.) program is a two-year course of study that attracts students from Quebec, Canada, the U.S., and overseas. It is recognized by the *Ordre des urbanistes du Québec* (OUQ) and the *Canadian Institute of Planners* (CIP). Graduates may become full members of the OUQ and other provincial planning associations by completing their respective internship and examination requirements.

The M.U.P. program was designed with a strong emphasis on project-based learning, in particular through practical work done in teams in three planning studios. Approximately half of the curriculum is devoted to required courses that teach basic knowledge and skills in urban planning; the other half enables students to select courses or research projects that match their particular interests. Students participate actively in professors' research programs or define their individual research objectiv

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and*

Students are encouraged to complete at least one course in each of the four areas of design, environment, housing, and transportation.

Group A

9-18 credits from the following:

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar
CIVE 540	(3)	Urban Transportation Planning
CIVE 561	(3)	Urban Activity, Air Pollution, and Health
GEOG 504	(3)	Advanced Economic Geography
GEOG 525	(3)	Asian Cities in the 21st Century
URBP 501	(2)	Principles and Practice 1
URBP 503	(3)	Public Transport: Planning and Operations
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 507*	(3)	Planning and Infrastructure
URBP 514	(4)	Community Design Workshop
URBP 519*	(6)	Sustainable Development Plans
URBP 520*	(3)	Globalization: Planning and Change
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 536	(2)	Current Issues in Transportation 1
URBP 537	(2)	Current Issues in Transportation 2
URBP 541	(1)	Selected Topics in Planning
URBP 542	(1)	Selected Topics in Visual Analysis
URBP 543	(3)	Special Topics
URBP 551	(3)	Urban Design and Planning
URBP 553	(3)	Urban Governance
URBP 555	(3)	Real Estate and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective
URBP 604	(3)	Urban Design Seminar
URBP 608	(3)	Advanced GIS Applications
URBP 616	(3)	Selected Topics 1
URBP 617	(3)	Selected Topics 2
URBP 618	(3)	Selected Topics 3
URBP 619	(4)	Land Use and Transport Planning
URBP 620	(4)	Transport 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 644	(1)	Multivariate Statistics

URBP 645	(1)	Social Research Methods 1
URBP 646	(1)	Social Research Methods 2
URBP 647	(1)	Selected Methods in Planning 1
URBP 648	(1)	Selected Methods in Planning 2
URBP 649	(1)	Visual and Spatial Methods
URBP 651	(3)	Redesigning Suburban Space
URBP 656	(3)	Urban Innovation and Creativity

* Courses open only to students enrolled in the Barbados Field Study Semester during the fall term of their second year in the program. With this option, URBP 519 is substituted for URBP 624. Coursework must include URBP 507, URBP 520, and URBP 634. All other requirements for the M.U.P. degree apply.

Group B

0-9 credits from the following:

Students may take up to 9 credits of coursework offered at the 500 or 600 levels by any academic unit at McGill or at another Montreal university, with the approval of the School, if they help students to develop an in-depth knowledge of one or more subject areas in the field of planning, with the approval of the School. Choices usually include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the selected course(s) can be counted toward the M.U.P. degree.

6.12.9.6 Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis): Transportation Planning (66 credits)

The Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis); 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 applications and research.

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 (34 credits)

URBP 505	(3)	Geographic Information Systems
URBP 609	(1)	Planning Graphics 1
URBP 610	(1)	Planning Graphics 2
URBP 611	(1)	Planning Graphics 3
URBP 612	(3)	History and Theory of Planning
URBP 619	(4)	Land Use and Transport Planning
URBP 622	(6)	Planning Studio 1
URBP 623	(3)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 635	(3)	Planning Law
URBP 641	(1)	Reading the Urban Landscape
URBP 642	(1)	Introduction to Planning Data
URBP 643	(1)	Introduction to Geographic Information Systems

URBP 623	(3)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 635	(3)	Planning Law
URBP 641	(1)	Reading the Urban Landscape
URBP 642	(1)	Introduction to Planning Data
URBP 643	(1)	Introduction to Geographic Information Systems

Complementary Courses (15 credits)

A minimum of 9 credits are selected from Group A; the remaining credits can be selected from Group A or Group B as indicated below.

Group A (9-12 credits)

At least 9 credits (three courses) from the following:

URBP 553	(3)	Urban Governance
URBP 555	(3)	Real Estate and Planning
URBP 557	(3)	The City in History
URBP 604	(3)	Urban Design Seminar

Group B (3-6 credits)

3-6 credits from the following or other 500 or 600 level courses (see note below):

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 521	(3)	Structure of Cities
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar
GEOG 525	(3)	Asian Cities in the 21st Century
URBP 501	(2)	Principles and Practice 1
URBP 503	(3)	Public Transport: Planning and Operations
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 514	(4)	Community Design Workshop
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 541	(1)	Selected Topics in Planning
URBP 542	(1)	Selected Topics in Visual Analysis
URBP 543	(3)	Special Topics
URBP 556	(3)	Urban Economy: A Spatial Perspective
URBP 616	(3)	Selected Topics 1
URBP 617	(3)	Selected Topics 2
URBP 618	(3)	Selected Topics 3
URBP 619	(4)	Land Use and Transport Planning
URBP 620	(4)	Transport Economics
URBP 625	(2)	Principles and Practice 2
URBP 626	(2)	Principles and Practice 3
URBP 629	(3)	Cities in a Globalizing World

URBP 641	(1)	Reading the Urban Landscape
URBP 644	(1)	Multivariate Statistics
URBP 645	(1)	Social Research Methods 1
URBP 646	(1)	Social Research Methods 2
URBP 647	(1)	Selected Methods in Planning 1
URBP 648	(1)	Selected Methods in Planning 2
URBP 649	(1)	Visual and Spatial Methods
URBP 651	(3)	Redesigning Suburban Space
URBP 656	(3)	Urban Innovation and Creativity

Students may also take courses at the 500 or 600 level in any academic unit at McGill or at another Montreal university

7.2.3 Graduate and Postdoctoral Studies' Mission

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

7.3 Important Dates

For all dates relating to the academic year, consult *www*

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

7.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

The general guidelines listed below are meant to encourage units to examine their policies and procedures to support postdoctoral education. Ev

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

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

5. Responsibilities

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

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

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

iv. Some examples of responsibilities of the department are:

- to verify the Postdoc's eligibility period for registration;
- to provide Postdocs with departmental policy and procedures that pertain to them;
- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee and sign off on the Letter of Agreement for Postdoctoral Education;
- to ensure that each Postdoc has a supervisor, lab and/or office space, access to research operating costs and necessary equipment;
-

7.10 Graduate Student Services and Information

Graduate students are encouraged to refer to *section 1.7: Student Services and Information* for information on the following topics:

- Service Point
- Student Rights & Responsibilities
- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
-

Coordinator – C. Zhu
Telephone: 514-398-2827
Email: *grad.mse@mcgill.ca*
Website: *www.mcgill.ca/mse*
Graduate Option website: *www.mcgill.ca/mse/envroption*

7.12.1.2 About Environment

Resolving en

Entomology (under *section 2.12.7: Natural Resource Sciences*)

section 2.12.7.7: Master of Science (M.Sc.) Entomology (Thesis): Environment (46 credits) (***Agricultural & Environmental Sciences*** *> Graduate*

7.12.1.3 Environment Admission Requirements and Application Procedures

7.12.1.3.1 Admission Requirements

Candidates must apply **separately** to the McGill School of Environment (MSE) for the graduate Environment option. Their admissibility will be based on their academic experience and performance, and the availability of a potential MSE-accredited supervisor or co-supervisor for their proposed research. For further information, please consult the following website: *www.mcgill.ca/mse/envroption*.

7.12.1.3.2 Application Procedures

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

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

7.12.1.3.2.1 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/envroption#FACULTY*).

7.12.1.3.3 Application Dates and Deadlines

The application deadlines to the graduate Environment option may vary depending on the department you are applying to. For more information, please contact the *Graduate Program Coordinator* in the department you are interested in.

7.12.1.4 Environment Faculty

Director

Sylvie de Blois

Professors

Peter G. Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (*joint appt. with Geography and Natural Resource Sciences*)

Colin Chapman; B.Sc., M.A., Ph.D.(Alta.) (*joint appt. with Anthropology*)

Iwao Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (*joint appt. with Philosophy*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with Redpath Museum*)

Associate Professors

Madhav Badami; B.Tech., M.S.(IIT), M.E.Des.(Calg.), Ph.D.(Br. Col.) (*joint appt. with School of Urban Planning*)

Christopher Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.) (*joint appt. with InstitBnj0.i9804 41 68.52 532.9 l9hre1 0 0 7BP.346 517.56 Tm6.32Col.) (ec3*

8 Interfaculty Studies

8.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. *GPS* is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career

8.4 Graduate Studies at a Glance

Please refer to *University Regulations & Resources* > *Graduate* > *section 1.3: Graduate Studies at a Glance* for a list of all graduate departments and

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- 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 pro

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines*

- nanoparticles and cell imaging;
- bioinformatics and computational biology;
- computers in medical education, including interactiv

Application Opening Dates	Application Deadlines		
All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**

BIEN 560	(3)	Biosensors
BIEN 570	(3)	Active Mechanics in Biology
BIEN 590	(3)	Cell Culture Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
BMDE 610	(3)	Functional Neuroimaging Fusion
		Advanced MR Imaging and Spectroscop

8.12.1.6 Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The goal of the Biological and Biomedical Engineering Ph.D. program is for students to gain advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus in an area of choice while integrating quantitative concepts and engineering tools for the study of life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. The program will prepare students for careers in academia, industry, hospitals and government. Students who complete the program will obtain a Doctor of Philosophy in Biological and Biomedical Engineering. The best preparation for this program is a Master's degree in BBME or a related discipline.

Thesis

Thesis

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

Required Course

BBME 701	(0)	Ph.D. Comprehensive Examination

Students must be registered in this course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

Further courses may be required by the supervisor(s) in consultation with the Graduate Program Director, depending on the educational background of individual students.

8.12.2 Neuroscience (Integrated Program)

8.12.2.1 Location

Montreal Neurological Institute, Room 141
3801 University Street
Montreal QC H3A 2B4
Website: *www.mcgill.ca/ipn*

8.12.2.2 About the Integrated Program in Neuroscience

Montreal is home to the largest concentration of neuroscientists in North America. Neuroscience research at McGill University is internationally renowned, and its Integrated Program in Neuroscience (IPN) provides graduate training in this outstanding research environment. With approximately 340 M.Sc. and Ph.D. students and more than 230 supervisors, the IPN is the largest graduate program in the Faculty of Medicine and one of the largest neuroscience graduate programs in North America.

Neuroscience training within the IPN spans the full spectrum of research fields, from cellular and molecular neuroscience to behavioural and cognitive neuroscience. In addition to laboratory research, the IPN offers an extensive range of courses, hosts an annual *Neuroscience Retreat*, and maintains a seminar program to facilitate communication between students in different neuroscience disciplines. Neuroscience trainees from McGill have gone on to successful careers in academia and industry.

A prospective graduate student may *identify a supervisor* from one of several research streams, spanning the full spectrum of neuroscience research. A student with a bachelor's degree may apply to the **M.Sc.** program; it is common to transfer to the **Ph.D.** program if suitable progress is made. Students with M.Sc. degrees may apply directly to the Ph.D. program. IPN also offers a Ph.D. Rotation program each September.

GENERAL

1. Students must select an Advisory Committee, in conjunction with their thesis supervisor. This committee will consist of the thesis supervisor and two (maximum three) other individuals who will participate in discussions with students about their research program.
2. All Ph.D. students are required to complete a candidacy examination before the end of Ph.D. 3. The exam serves to evaluate the students' ability to perform original scholarship and to demonstrate their suitability for a Ph.D. degree. An M.Sc. student may be eligible to transfer to the Ph.D. program without submitting a master's thesis by taking the *Transfer Seminar/Candidacy Exam*. This exam is allowed if the master's CGPA is 3.5 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 3.5 CGPA in their M.Sc. coursework while in the IPN, must submit a master's thesis and apply for the Ph.D. level afterwards.
3. Students are required to submit a written thesis proposal (18 months after the start of the program for M.Sc. students, and at least one month prior to the candidacy exam for Ph.D. students). This document must state the research question, present the hypothesis being tested, review the relevant literature,

summarize the methodology used, and present the research data to date. This proposal will then be orally presented to the student's Advisory Committee members, who will review the written proposal and communicate their recommendations to the student.

4. Students will present a formal seminar on their research work prior to writing their thesis. This presentation will be attended by the student's Advisory Committee who will report their impressions and recommendations to the student.
5. Before final thesis submission, Ph.D. students must successfully complete an oral defence, which is a final, in-depth, formal presentation of their research.
6. An annual oral informal presentation of research work accomplished will be presented to the student's Advisory Committee.
7. The Graduate Program Committee has instituted a mentorship program by which each student will be matched with a specific member of the Committee. The Program Mentor ensures that the student, the supervisor(s), and other members of the Advisory Committee are aware of and meet key milestones, in a timely manner, throughout the course of the student's graduate study.
8.

Consult the Integrated Program in Neuroscience's *website* for further details

8.12.2.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set

Professors

P

Professors

M. Lepage; B.A. (C'dia), Ph.D. (UQAM) (James McGill Professor) (*Dept. of Psychiatry*)

L. Levin; B.Sc., M.D., Ph.D. (Harv.) (*Depts. of Ophthalmology, 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) (

Professors

D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY) (*Dept. of Psycholo*

8.12.2.6 Doctor of Philosophy (Ph.D.) Neuroscience

Students with an M.Sc. degree continuing in this Department will receive credit exemptions for graduate coursework accomplished (including NEUR 630 or NEUR 631). It may be recommended that they take specialty courses related to their field of study in neuroscience. Students with an M.Sc. degree from another program will be required to take NEUR 630 and NEUR 631 and/or other courses listed under the M.Sc. degree depending upon their background and field of study.

Students with an M.D. degree proceeding directly into a Ph.D. program will be required to take NEUR 630 and NEUR 631. They will also be required to take 6 credits of graduate-level courses.

Thesis

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

Required Courses (6 credits)

NEUR 630	(3)	Principles of Neuroscience 1
NEUR 631	(3)	Principles of Neuroscience 2
NEUR 700	(0)	Doctoral Candidacy Examination
NEUR 705	(0)	Responsible Research Conduct

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 levt(yve Li101 Tm(w f)T141232Tjhes3934 44e S of Nese M.Sc. de)Tj1 0 0hes3934 447.4633ic domaingBT/F0 8 Tf1 0 0 396 0 0 4 44L

t(ve M.Sc. de)T99 0 8 3 1 30.586 66.563 Tm(y)Ti1 047 3 1 30.586 6e Li1e S of Nes , tredibnd d63 Tnd for purinmaredmard f.56rittutfor pf.56xpre31 andquam(t(ve M.Sc. de)T4043951 3 1

of the *TOEFL* exam with their application and have a minimum score of 86 on the Internet-based test (iBT; 567 on the paper-based test [PBT]) with each

Required Courses (6 credits)

QLSC 600D1	(3)	Foundations of Quantitative Life Sciences
QLSC 600D2	(3)	Foundations of Quantitative Life Sciences
QLSC 601D1	(0)	Quantitative Life Sciences Seminars 1
QLSC 601D2	(0)	Quantitative Life Sciences Seminars 1
QLSC 602D1	(0)	Quantitative Life Sciences Seminars 2
QLSC 602D2	(0)	Quantitative Life Sciences Seminars 2
QLSC 603D1	(0)	Quantitative Life Sciences Seminars 3
QLSC 603D2	(0)	Quantitative Life Sciences Seminars 3
QLSC 701	(0)	Ph.D. Comprehensive Exam

Complementary Courses

9-11 credits

Students will be required to take one or two courses from each of the Quantitative and Life Science Blocks for a total of three, stream-specific courses.

Biophysics Stream

Quantitative

BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
CHEM 514	(3)	Biophysical Chemistry
CHEM 520	(3)	Methods in Chemical Biology
COMP 551	(4)	Applied Machine Learning
MATH 682	(4)	Statistical Inference
PHYS 519	(3)	Advanced Biophysics
PHYS 559	(3)	Advanced Statistical Mechanics
QLSC 611	(3)	Directed Readings

Life Sciences

BIOC 605	(3)	Protein Biology and Proteomics
BIOL 551	(3)	Principles of Cellular Control
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
QLSC 611	(3)	Directed Readings

Computational and Statistical Molecular Biology Stream

Quantitative

BIOS 601	(4)	Epidemiology: Introduction and Statistical Models
BMDE 502	(3)	BME Modelling and Identification
COMP 551	(4)	Applied Machine Learning
COMP 561	(4)	Computational Biology Methods and Research
COMP 598	(3)	Topics in Computer Science 1

HGEN 677	(3)	Statistical Concepts in Genetic and Genomic Analysis
MATH 523	(4)	Generalized Linear Models
MATH 533	(4)	Honours Regression and Analysis of Variance
MATH 680	(4)	Computation Intensive Statistics
MATH 682	(4)	Statistical Inference
QLSC 611	(3)	Directed Readings

Life Sciences

BIOC 603	(3)	Genomics and Gene Expression
BIOL 551	(3)	Principles of Cellular Control
EXMD 602	(3)	Techniques in Molecular Genetics
HGEN 661	(3)	Population Genetics
HGEN 692	(3)	Human Genetics
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 505	(3)	Structural Pharmacology
QLSC 611	(3)	Directed Readings

Ecosystems Stream

Quantitative

ENVB 506	(3)	Quantitative Methods: Ecology
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 533	(4)	Honours Regression and Analysis of Variance
MATH 537	(4)	Honours Mathematical Models in Biology
MATH 547	(4)	Stochastic Processes
MATH 556	(4)	Mathematical Statistics 1
MATH 682	(4)	Statistical Inference
QLSC 611	(3)	Directed Readings

Life Sciences

BIOL 509	(3)	Methods in Molecular Ecology
BIOL 510	(3)	Advances in Community Ecology

9 Faculty of Law

9.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. *GPS* is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

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

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

9.2 Graduate and Postdoctoral Studies

Administrative Officer

9.4 Graduate Studies at a Glance

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

9.5 Program Requirements

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

- Master's Degrees
- Doctoral Degreesgrees

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- 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 betweeateo7cfor.79 67 a supervisor

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

9.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

9.12.1 Law

9.12.1.1 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*
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section 9.12.1.5: 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 9.12.1.10: Master of Laws (LL.M.) Law (Thesis): Air and Space Law (45 credits)

The LL.M. thesis program in Air and Space Law is geared toward students who wish to focus on original scholarly research related to the Air and Space Law domain. This program involves a combination of coursework and research credits (a thesis of 30,000 words). The thesis must show familiarity with previous work in the field and demonstrate the student's capacity for independent analysis, writing skills, and organization.

section 9.12.1.6: Master of Laws (LL.M.) Law (Thesis): Bioethics (45 credits)

The master's specialization in Bioethics is an interdiscipl87 r.271 60734T50 0 11wg9

section 9.12.1.9: Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits)

Note: Availability of this program is subject to relevant courses being offered in a given year.

Doctor of Civil Law (D.C.L.) Degrees

section 9.12.1.14: Doctor of Civil Law (D.C.L.) Law

The Doctor of Civil Law program is centred around the doctoral thesis, which develops a substantive and original contribution to legal research and knowledge under the supervision of a faculty member. Many doctoral candidates intend on pursuing an academic career, and develop their approach to pedagogy, research, and writing while at McGill.

section 9.12.1.15: Doctor of Civil Law (D.C.L.) Air and Space Law

The Doctor of Civil Law in Air and Space Law is a research degree ideal for scholars intent on deepening and broadening their critical understanding of the law, as well as their original engagement with it. The program offers a curriculum exploring legal issues that arise from international civil aviation and new technologies in space. It also provides students with a comprehensive understanding of the legal processes regulating worldwide aerospace activities.

section 9.12.1.16: Doctor of Civil Law (D.C.L.) Law: Comparative Law

Doctoral students in Comparative Law are encouraged to think about the nature and value of comparative scholarship both through coursework (particularly the Legal Traditions course, which is recommended for DCL students in Comparative Law) and through their doctoral thesis. As such, students are encouraged and given opportunities to explore how juridical analyses are enriched through openness to learning with diverse research methods, theoretical frameworks, legal traditions and doctrines, languages, and disciplinary perspectives.

Graduate Certificates

section 9.12.1.17: Graduate Certificate (Gr. Cert.) Air and Space Law (15 credits)

The Graduate Certificate in Air and Space Law is a course-based program designed for students with a strong professional orientation. This certificate is particularly appropriate for jurists and other professionals who wish to pursue graduate-level legal studies in aviation, air and space law, government regulations, conventions, and treaties dealing with these areas.

section 9.12.1.18: Graduate Certificate (Gr. Cert.) Comparative Law (15 credits)

The Graduate Certificate in Comparative Law provides advanced training to candidates who do not wish to undertake the master's degree. The Graduate Certificate is particularly appropriate for judges, law professors, and legal practitioners from countries undergoing substantial legal reform (such as post-Communist or developing countries) who wish to pursue advanced studies in areas such as civil, commercial, or human rights law.

9.12.1.3 Law Admission Requirements and Application Procedures

9.12.1.3.1 Admission Requirements

Applicants must submit their application through *uApply*. Any questions regarding the status of an application must be sent via the **uApply communication tool**. For detailed information on the application process, please visit the *Faculty website*.

9.12.1.3.1.1 Language Requirement

Graduate-level courses are generally offered in English, and an adequate level of proficiency in English must be demonstrat832 Tme-j1 0 in5b visit the

9.12.1.3.1.3 LL.M. Interdisciplinary Options

Note: The availability of these options is subject to relevant courses being offered in a given year.

1. **Environment Option**: This option is available to students who apply for admission to the LL.M. Thesis or Non-Thesis program at the Faculty of Law. For further information, see *Environment* > *Graduate* > *Browse Academic Units & Programs* > *section 7.12.1: Environment* or visit *www.mcgill.ca/mse/envroption*.
2. **Bioethics Option**: This option is available to students who apply for admission to the LL.M. Thesis program at the Faculty of Law. For further information, see *Medicine* > *Graduate* > *Browse Academic Units & Programs* > *section 11.12.3: Bioethics* or visit *www.mcgill.ca/biomedicalethicsunit/teaching/masters*.

9.12.1.3.1.4 D.C.L. Programs

Applicants demonstrating outstanding academic ability will be considered for admission to the doctoral program.

In addition to the requirements for admission to the LL.M. programs, D.C.L. applicants must also hold a master's degree (or equivalent) in Law, with a minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 (or equivalent).* Admission to the doctoral program is always dependent on the availability of a suitable supervisor.

* *Candidates holding law degrees from programs delivered by distance or by online teaching and learning are inadmissible to the McGill LL.M., D.C.L., or Graduate Certificate programs.*

9.12.1.3.1.5 Graduate Certificate Programs

The requirements for admission to the graduate certificate programs are essentially the same as for the LL.M. programs, except that greater weight may be placed on professional experience. For further information, visit *www.mcgill.ca/law/grad-studies/admissions-guide/eligibility*. Graduate certificate programs are available in the following two fields:

1. **Graduate Certificate in *Air and Space Law***
2. **Graduate Certificate in *Comparative Law***

9.12.1.3.2 Application Procedures

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

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

Additional Requirements

The Faculty of Law offers **Fall term admission only**; the Faculty will not consider applications for Winter or Summer entry. Applications submitted for the Winter and Summer terms will be cancelled without reimbursement of the application fee.

Note: The application fee is non-refundable.

9.12.1.4 Course Selection (Graduate and Postdoctoral Law Programs)

It should be noted that not all courses are offered in each year. Students wishing to pursue research topics outside of these particular fields are welcome to do so, subject to the availability of appropriate thesis supervisors.

The graduate-level Law courses are grouped into five inter-related concentrations.

9.12.1.4.1 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.

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Courses offered within this concentration may include:

Government Control of Business (CMPL 574)

Government Regulation of Space Activities (ASPL 639)

Intellectual & Industrial Property (BUS2 502)

International Business Law (CMPL 604)

International Carriage of Goods by Sea (CMPL 515)

International Development Law (CMPL 516)

International Environmental Law and Politics (CMPL 546)

International Maritime Conventions (CMPL 553)

International Taxation (CMPL 539)

Law and Practice of International Trade (CMPL 543)

Law of Space Applications (ASPL 638)

Patent Theory and Policy (BUS2 501)

Private International Air Law (ASPL 636)

Public International Air Law (ASPL 633)

Resolution of International Disputes (CMPL 533)

Securities Regulation (BUS2 504)

Courses offered within this concentration may include:

Government Control of Business (CMPL 574)

Intellectual & Industrial Property (BUS2 502)

International Environmental Law and Politics (CMPL 546)

Land Use Planning (PRV4 545)

Law and Health Care (CMPL 642)

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Required Courses (9 credits)

(3) Legal Research Methodology

CMPL 642	(3)	Law and Health Care
PHIL 643	(3)	Seminar: Medical Ethics
RELG 571	(3)	Ethics, Medicine and Religion

6 credits at the 500 level or above of Faculty of Law courses or Bioethics courses.

9.12.1.7 Master of Laws (LL.M.) Law (Thesis): Environment (45 credits)

The Faculty of Law together with the School of Environment and other units at McGill offers a 45-credit LL.M. program, thesis option, in Environment. This is a research-intensive, interdisciplinary, graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (27 credits)

As part of the course Master's nd courPf9l's

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the Summer of the first year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The supervised research project is a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and is typically completed in the Summer.

CMPL 655	(15)	Research Project 1

Required Courses (9 credits)

CMPL 610	(3)	Legal Research Methodology
CMPL 641	(3)	Theoretical Approaches to Law
LAWG 601(3)	(1.5)	Communication 1

Complementary Courses (9 credits)

3 credits from the following:

	(1.5)	Legal Research Methodology

LL.M. candidates may be associated with the Centre for Human Rights and Legal Pluralism, the Quebec Research Centre of Private and Comparativ

CMPL 600	(3)	Legal Traditions
CMPL 610	(3)	Legal Research Methodology
CMPL 641	(3)	Theoretical Approaches to Law
LAWG 601	(1.5)	Communication 1
LAWG 602	(1.5)	Communication 2

Complementary Courses (18 credits)

The remaining 18 credits (or fe

Comprehensive - Required

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

ASPL 701	(0)	Comprehensive - Air/Space Law

Required Courses (5 Credits)

CMPL 641	(3)	Theoretical Approaches to Law
LAWG 702	(2)	Legal Research Methodology for DCL
LAWG 703	(0)	Literature Review, Analysis and Proposal
LAWG 704	(0)	DCL Research Seminar 1
LAWG 705	(0)	DCL Research Seminar 2

Complementary Course (0-3 Credits)

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: https://mcgill.ca/law/grad-studies/certificate-programs.

Required Courses (9 credits)

ASPL 633	(3)	Public International Air Law
		Pri

Administrative Officers	
Elisa Pylkkanen; B.A., M.A.(McG.)	**Director (Graduate and Postdoctoral Studies)**

10.2.2 Location

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

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

10.2.3 Graduate and Postdoctoral Studies' Mission

The mission of Graduate and Postdoctoral Studies (GPS) is to promote university-wide academic e

10.7 Fellowships, Awards, and Assistantships

Please refer to

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

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

iii. As a rule, Postdocs who are Canadian citizens or who have Permanent Resident status may take courses for credit. Admission to such courses should

Approved by Senate, April 2000; revised May 2014

10.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

10.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see

10.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

10.10 Graduate Student Services and Information

Graduate students are encouraged to refer to *section 1.7: Student Services and Information* for information on the following topics:

- Service Point
- Student Rights & Responsibilities
- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
-

Telephone: 514-398-4066
Website: *www.mcgill.ca/desautels*

10.12.2 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

Ph.D.

section 10.15.4: Doctor of Ition 10.15.4

MBA Admissions Office
Desautels Faculty of Management
McGill University
1001 Sherbrooke Street West, Room 302
Montreal QC H3A 1G5
Canada
Email: *mba.mgmt@mcgill.ca*
Website: *www.mcgill.ca/desautels/programs/mba-programs*

10.13.2 M.B.A. Application Procedures

The McGill M.B.A. full-time and part-time programs begin in August of each year.

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

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

10.13.2.1 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
- GMAT score (exam written within the past five years) and TOEFL score (where applicable) from an exam 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 10.13.1: Admission Requirements* above)
- A minimum of two years of full-time work experience, following completion of an undergraduate degree
- Interview

Please note that entrance to the McGill M.B.A. is highly competitive. It is in the applicant's interest to apply as early as possible. Applicants can view their application status via *Minerva*.

Note: Admission to graduate programs at McGill is competitive and the final decision rests with the Graduate Admissions Committee. Admission decisions are not subject to appeal.

Application Fee Information

The application fee must be paid by credit card at the time of application (online). **Please note that a file will not be opened until an online application is received.** Fee amounts and details are available on the *Student Accounts website*.

10.13.3 Application Dates and Deadlines

For application dates and deadlines, please consult *www.mcgill.ca/desautels/programs/mba-programs/mba/admissions*.

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.

Procedure for Accepting an Offer of Admission to the M.B.A. Program

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All students who are not citizens or Permanent Residents of Canada are required to obtain the Quebec Acceptance Certificate (C.A.Q.) and Study Permit **prior to entering the country. Do not leave home without proper documentation. You cannot change your status from Visitor to Student once you are in Canada.**

Quebec Acceptance Certificate (C.A.Q.): The process to come to Canada begins with an application for a Quebec Acceptance Certificate (C.A.Q.). Details on how and where to apply for the C.A.Q. are provided with the McGill Admissions package.

Study Permit: Issued by *Immigration, Refugees and Citizenship Canada*. Please consult their *website* for information on how to apply.

Canada Immigration through a Canadian Embassy or Consulate.

Citizens of the United States, Greenland, and/or St. Pierre-Miquelon are permitted to obtain the Student Authorization at a Port of Entry, if in possession of the C.A.Q.

For further information, or if there is an emergency, contact:

International Student Services
3600 McTavish Street, Suite 4400
Montreal QC H3A 0G3
Telephone: 514-398-4349 (9:00 a.m. to 5:00 p.m.)
Email: *international.students@mcgill.ca*
Website: *www.mcgill.ca/internationalstudents*

10.13.5 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 F

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.

10.13.6 M.B.A. International Exchange Program

Through the McGill M.B.A. Exchange Program there are exciting opportunities to study abroad.

Participation in the program gives McGill students the opportunity to spend part of their M.B.A. studying at a business school abroad. McGill is part of the *Partnership in International Management* (PIM), a consortium of the leading business schools in North America, South America, Africa, Europe, and Asia. Exchanges with both PIM and non-PIM schools are available.

The list of schools with exchange agreements with McGill is available at *www.mcgill.ca/desautels/programs/mba-programs/mba/academics/curriculum/experiential/exchange/partners*.

10.13.7 Master of Business Administration (M.B.A.) Management (Non-Thesis): Business Analytics (57 credits)

The Business Analytics concentration equips students with the ability to apply data analytic techniques and tools to make better managerial decisions and drive superior business performance. Students will gain the ability to transform data into a powerful strategic asset. Students completing this concentration will have training in various methods and tools for analytics, and gain a comprehensive understanding of the strategic use of analytics for businesses.

Required Courses (27 credits)

INSY 642	(3)	Techniques and Tools for Analytics
MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip
MGSC 640	(3)	Fundamentals of Decision Analytics

Complementary Courses (30 credits)

At least 6 credits selected from the following courses toward the concentration:

INSY 652	(3)	Predictive Analytics
INSY 653	(3)	Analytics for Digital Business Models
MGSC 650	(3)	Operations and Risk Analytics
MGSC 656	(3)	Analytics Consulting

At most 3 credits selected from the following courses toward the concentration:

BUSA 690	(3)	Advanced Topics in Management 1
FINE 646	(3)	Investments and Portfolio Management
MRKT 658	(3)	Marketing Intelligence
MRKT 690	(3)	Advanced Topics in Marketing 1

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*

BUSA 650	(6)	Internship
BUSA 651	(6)	Practicum

* Note: Students electing to participate in an International Exchange (12 credits of complementary courses) are exempt from BUSA 650 and BUSA 651.
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* 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.

10.13.9 Master of Business Administration (M.B.A.) Management (Non-Thesis): General Management (57 credits)

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip

Concentration Courses (36 credits)

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3 credits selected from the following:

ORGB 680	(3)	Talent Management in a Global World
ORGB 685	(3)	Cross Cultural Management

At least 6 credits selected from the following courses toward the concentration:

BUSA 614	(3)	Governance of Corporation: Contemporary Issues
BUSA 640	(3)	Launching New Ventures
BUSA 660	(3)	CEO Insights
BUSA 690	(3)	Advanced Topics in Management 1
INDR 633	(3)	Creating Wealth and Prosperity
MGPO 615	(3)	Consulting for Change
MGPO 630	(3)	Managing Strategy and Innovation
MGPO 637	(3)	Cases in Competitive Strategy
MGPO 638	(3)	Managing Organizational Politics
MGPO 640	(3)	Strategies for Sustainable Development
MGPO 645	(3)	Strategy in Context
MGPO 651	(3)	Strategic Management: Developing Countries
MGPO 669	(3)	Managing Globalization
MGPO 683	(3)	International Business Policy
ORGB 633	(3)	Managerial Negotiations
ORGB 640	(3)	The Art of Leadership
ORGB 680	(3)	Talent Management in a Global World
ORGB 685	(3)	Cross Cultural Management

At most 3 credits selected from the following courses toward the concentration:

ACCT 618	(3)	Financial Reporting: Structure & Analysis
MGSC 602	(3)	Strategic Management of Operations
MRKT 652	(3)	Competitive Marketing Strategy

15 credits chosen from 500-level courses and higher offered by the Faculty.

6 credits from the following:*

BUSA 650	(6)	Internship
		Practicum

Required Courses (24 credits)

MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
		International Study

its strategic use and development. As manufacturing and service operations now stretch the globe, issues of logistics and supply chain integration become more important. As innovative products increasingly create and transform markets, managers must master the technology development process. This concentration provides tools, frameworks, and integration of all aspects of organizational operations, supply chain, IT processes and innovation management. Students following this concentration will be uniquely qualified to take jobs in new product development, IT strategy, operations and supply chain management, and technology consulting. A unique aspect of the concentration is the capstone project course where students work on solving a real-life technology innovation problem.

Required Courses (27 credits)

INSY 606	(3)	Technology Management
MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip
MGSC 616	(3)	Technology in Action

Complementary Courses (30 credits)

At least 6 credits selected from the following courses toward the concentration:

INSY 607	(3)	Technology Consulting
INSY 608	(3)	Winning with IT
INSY 609	(3)	Technology Project Management
INSY 633	(3)	Knowledge Management and Technology for Innovation
INSY 645	(3)	Managing Electronic Commerce
MGSC 602	(3)	Strategic Management of Operations
MGSC 603	(3)	Logistics Management
MGSC 605	(3)	Total Quality Management
MGSC 615	(3)	Procurement and Distribution
MGSC 631	(3)	Analysis: Production Operations

At most 3 credits selected from the following courses toward the concentration:

ACCT 618	(3)	Financial Reporting: Structure & Analysis
BUSA 691	(3)	Advanced Topics in Management 2
MGPO 650	(3)	Managing Innovation
ORGB 625	(3)	Managing Organizational Change

15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:*

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.

Joint Program:

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)

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	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

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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
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Complementary - Law, Common Law (3 credits)

Students complete 3 credits of Common Law courses. The following courses count for their full credit weight as common law.

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 549	(3)	Equity and Trusts
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LAWG 504	(3)	Death and Property
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights.

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory

CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

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

Elective - Law, Other Courses

Students select the remaining 19-25 credits from among Faculty ofm(,)Tj1 0 0 18 credits from among F

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
PRV2 270	(3)	Law of Persons
		Administration Property of Another and Trusts

CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties

The remaining 12 credits of courses are chosen from the 500-level and higher offered by the Desautels Faculty of Management to complete a total of 51 credits.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

Required - Law (59 credits)

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	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 Obligations514 17.80fered b1Tm(vil La)Tj1 9 0 1.521 Tm(a514121 Tm(w Oblig)Tj1 2 0 521 Tm(a5141
PRV1 144D1	(2.5)	Civil Law Property
PRV1 144D2	(2.5)	Civil Law Property

PRV4 451	(3)	Real Estate Transactions
PRV4 549	(3)	Equity and Trusts
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LA	(3)	Evidence (Civil Matters)

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)	Student Clerkship A
WRIT 440D1*	(3)	Student Clerkship A
WRIT 440D2*	(3)	Student Clerkship A
WRIT 441*	(3)	Student 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.

Master of Business Administration and Bachelor of Civil Law/Bachelor of Laws (Joint M.B.A. & B.C.L./LL.B.) Management3)

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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
PR	(3)	Law of Persons

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	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	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
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Complementary - Law, Common Law (3 credits)

Students complete 3 credits of Common Law courses. The following courses count for their full credit weight as common law.

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 549	(3)	Equity and Trusts
PRV5 582	(2)	Advanced Torts

Complementary - Law, Civil and Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits.

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

Complementary - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights.

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Complementary - Law, Principles of Canadian Administrative Law

Requirement: Students must choose one course (0-6 credits) from the following courses to meet this requirement:

BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law

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(3) Student Clerkship A

For the full M.D.,C.M. curriculum please refer to
http://www.mcgill.ca/study/faculties/medicine/undergraduate/programs/mdcm-doctor-medicine-and-master-surgery

Required Courses (36 credits)

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.,C.M. & M.B.A.

Note: Students will have to follow the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A.

M.B.A./Japan Admission Requirements and Applicaoi1vark6.A./Japan Admoceg0/oi1varlS(Statistics, Math for Fnci-.13)Tj0 0 1 37.52

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

10.13.15.6 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): General Management (57 credits)

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MB

Required Concentration Courses (6 credits)

Students choosing the Global Strate

MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip

Required Concentration Courses (6 credits)

Students choosing the Marketing concentration must complete these required courses:

MRKT 657	(3)	Customer Insights
MRKT 658	(3)	Marketing Intelligence

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

INSY 64052 625.7((3))Tj1 0 0 1 70.52 31 158.Managing	(3)	Electronic Commerce

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

10.13.16 Joint Executive M.B.A. Admission Requirements and Application Procedures

About the Joint Executive M.B.A.

section 10.13.16.4: 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.

10.13.16.1 Admission Requirements

For the admission criteria, please consult the following website: *www.embamcgillhec.ca/en/application/admission-criteria*.

10.13.16.2 Application Procedures

For the application procedures, please consult the following website: *www.embamcgillhec.ca/en/application*

section 10.14.6: Master of Management (M.M.) IMPM (Non-Thesis) (45 credits)

Engaging managers beyond administration and functioning within an authentically international context, this collaborative venture of business schools located in five different countries allows mid-career managers to study and focus on their own organizational and leadership issues with other international managers at universities in Brazil, England, India, China, and Canada.

For more information, visit our website at *www.impm.org*.

section 10.14.7: Master of Management (M.M.) IMPMHL (Non-Thesis) (45 credits)

Applying an experience-based approach to leadership development, this program will recruit practising managers and professionals throughout the health field, and from all parts of the world, to learn from distinguished faculty and each other, and gain a better understanding of their own leadership and managerial styles, the systems in which they work, their organizational contexts, and the work relationships they must build in order to achieve meaningful change.

For more information, visit our website at *www.mcgill.ca/desautels/programs/imhl*.

10.14.1 Admission Requirements and Application Procedures

- Analytics: For more information, please refer to *www.mcgill.ca/desautels/programs/mma/admissions*.
- Finance: For more information, please refer to *www.mcgill.ca/desautels/programs/mmf/admissions/finance: FFinance: F*

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

10.14.6 Master of Management (M.M.) IMPM (Non-Thesis) (45 credits)

Research Project (12 credits)

BUSA 689	(12)	Integrative Project

Required Courses (33 credits)

BUSA 666	(5)	The Practice of Management
BUSA 668	(5)	The Venture
BUSA 670	(5)	Managing Organizations
BUSA 672	(3)	Managerial Exchange
BUSA 675	(5)	Managing Context
BUSA 680	(5)	Managing People
BUSA 685	(5)	Managing Change

10.14.7 Master of Management (M.M.) IMPMHL (Non-Thesis) (45 credits)

The M.M. in International Masters for Practicing Managers in Health Leadership; Non-Thesis program is designed for clinicians and managers in the context of health care to help develop management skills for emerging health care leaders. This is a 15-month program made up five 12-day modules, followed by

BUSA 667	(6)	Analytic Mindset
BUSA 671	(3)	Managerial Experience
BUSA 676	(6)	Worldly Mindset
BUSA 677	(6)	Collaborative Mindset
BUSA 678	(6)	Catalytic Mindset
BUSA 694	(12)	Final Master's Paper

10.15 Joint Ph.D. in Management Admission Requirements and Application Procedures

About the Joint Ph.D. in Management

Ph.D. Program Office
Desautels Faculty of Management
McGill University
1001 Sherbrooke Street West
Montreal QC H3A 1G5
Canada
Telephone: 514-398-4060
Fax: 514-398-3876
Email: *phd.mgmt@mcgill.ca*
Website: *www.mcgill.ca/desautels/programs/phd*

section 10.15.4: Doctor of Philosophy (Ph.D.) Management

The Ph.D. Program participates in the Joint Ph.D. Program that brings together the four Montreal universities: Concordia University, the *École des Hautes Études Commerciales* (affiliated with the *Université de Montréal*), McGill University, and the *Université de Québec à Montréal*. The Ph.D. program in

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 management. 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 Phase II Advisory Committee has been established and, together with the student, formally agrees on a proposal for the work to be done in Phase II. The Phase II Form (Advisory Committee) must be approved by the McGill and the Joint Doctoral Committees. This includes the following:

- Doctoral seminars in the specialization area; minimum four courses
- Any other existing graduate-level courses in the specialization area and support field deemed appropriate by the Phase II 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 Phase II Advisory Committee will normally consist of at least three members; a supervisor and others decided upon jointly by the supervisor and the student. One of these members will typically come from the support field. Every student's Phase II Advisory Committee must have representation from at least two universities in the joint program.

Dissertation – Phase III

In the third phase of the program, students research, write, and defend a dissertation that probes deeply into a well-defined research topic. The topic is developed with the Phase III Advisory 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 Phase III Advisory Committee and, once the research is completed and the dissertation written, the student publicly defends the completed thesis. The Phase III Form (Phase III Advisory Committee) must be approved by the McGill and the Joint Doctoral Committees.

10.15.1 Admission Requirements

Candidates normally hold a master's-level degree, with a strong academic record from a recognized university.

GMAT (or *GRE*–General Test) results are required for all applications to the doctoral program; this includes McGill master's students applying to the Ph.D. The minimum GMAT (or GRE–General Test) score required is 70% equivalency. Tests must have been written within the past five years.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the *TOEFL* (Test of English as a Foreign Language) or *IELTS* (International English Language Testing Systems) Office. Applications will not be considered if a TOEFL or IELTS test result is not available. A minimum score of 100 for the Internet-based test, with each component score not less than 20, is required for admission. A minimum score of 7 for IELTS is required. Tests must have been written within the past two years.

Files will not be considered unless GMAT (or GRE-General Test) and TOEFL scores are received by the Application Deadline.

10.15.2 Application Procedures

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

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

Ad

10.15.4 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

10.15.5 Doctor of Philosophy (Ph.D.) Management: Environment

The new Environment Option provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence that political, socioeconomic and ethical judgments have. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

Thesis

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

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
		Ci

10.16.4 Graduate Certificate (Gr. Cert.) Post MBA (15 credits)

This program is no longer accepting new students.

Required Courses

15 credits of M.B.A. courses.

Graduate Certificate (Gr.j1 0 0 1 212.4 714.95 T0 1.i1 177.553 633.o3.512.4 714.95 T 714.95 Tm(ost MB)Tj1 0 2.4 714.95 TA Japanprim

Graduates of programs other than a Canadian Bachelor of Commerce, or graduates with foreign degrees must complete the *: Diploma (Dip.) Accounting (30 credits)* at the *School of Continuing Studies* and complete additional courses as necessary to satisfy the following 14 prerequisite courses, with minimum grades of B-.

CCFC 511 Financial Accounting 1
CCFC 512 Financial Accounting 2
CCFC 513 Financial Accounting 3
CCMA 511 Managerial Accounting 1
CCMA 522 Managerial Accounting 2
CCMA 523 Managerial Accounting 3
CCAU 511 Auditing 1
CCTX 511 Taxation 1
CCTX 532 Taxation 2
CFIN 512 Corporate Finance
CCLW 511 Law 1
CFIN 522 Applied Topics: Corporate Finance
CMIS 541 Information Systems for Managers
CPL2 552 Strategic Management

For more information, you may contact the School of Continuing Studies directly:

688 Sherbrooke Street West, 11th floor
Telephone: 514-398-6200
Email: *info.conted@mcgill.ca*
Website: *www.mcgill.ca/continuingstudies*

10.17.2 Application Procedures

Online applications for the GCPA program can be submitted through McGill's *uApply*. For details please visit *Ready to apply?*

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* and the *GCPA program* website for details about submitting your application.

A deferral of admission may be considered in exceptional cases upon evidence of extenuating circumstances for one year only. A request may be submitted by the student through *uApply* and evaluated by the GCPA Office.

Time Limits

The program must be completed within three years of admission.

10.17.2.1 Additional Requirements

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

- Applicants who have been accepted to the GCPA program are required to make a CAD$300 deposit via *uApply* when confirming the offer of admission. This fee is non-refundable and will be applied towards the student’s tuition.

10.17.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS)lmentartlplications foosines

10.17.4 Obtaining a CPA designation

To obtain the CPA designation in Quebec, a student must have:

1. Completed a Professional Education Program (PEP)
2. Passed the Common Final Examination (CFE)
3.

CCTX 511	(3)	Taxation 1
CCTX 532	(3)	Taxation 2
CFIN 512	(3)	Corporate Finance
CFIN 522	(3)	Applied Topics: Corporate Finance
CMIS 541	(3)	Information Systems for Managers
CPL2 552	(3)	Strategic Management

Required Courses (16 credits)

Issues in dits)InfoTaM6o 240.725 646.94s 0 0 1 254.22893 0 48.1 Tf1(InfAccounting)

Emeritus Professors

R.N. Kanungo; B.A., M.A.(Patna), Ph.D.(McG.) – *Organizational Behaviour*

M.D. Lee; B.A.(Eckerd), M.Ed.(Temple), M.A.(S. Florida), Ph.D.(Yale) – Organizational Behaviour

R.J. Loulou; M.Sc., Ph.D.(Calif.) – *Operations Management*

G.A. Whitmore; B.Sc.(Manit.), M.Sc., Ph.D.(Minn.) – *Operations Management*

Professors

N.J. Adler; B.A., M.B.A., Ph.D.(Calif.-LA) – *Organizational Behaviour*

R. Brenner; B.Sc., M.A., Ph.D.(Hebrew) – *Managerial Economics* (*Repap Chair in Economics*)

R. David; B.Eng., M.B.A.(McG.), Ph.D.(Cornell) – *Strategy and Organization*

L. Dubé; B.Sc.(Laval), M.B.A.(HEC), M.P.S., Ph.D.(Cornell) – *Marketing* (*James McGill Professor*)

V.R. Errunza; B.S., B.S.(Tech.)(Bom.), M.Sc., Ph.D.(Calif.) – *Finance* (*Bank of Montreal Finance Chair*)

S. Faraj; B.S.(Wisc.), M.S.(MIT), DBA – *Strategy and Organization*

S. Li; M.S.(Georgia), Ph.D.(Texas) – *Management Science*

S. Maguire; B.Sc.(Qu.), M.B.A.(Br. Col.) – *Strategy and Organization*

A.C. Masi; A.B.(Colgate), A.M., Ph.D.(Brown) – *Organizational Behaviour*

H. Mintzberg; B.Eng.(McG.), B.A.(Sir G. Wms.), S.M., Ph.D.(MIT) – *Strategy and Organization* (*John Cleghorn Professor of Management Studies*)

A. Pinsonneault; B.Com.(C'dia), M.Sc.(HEC), Ph.D.(Calif.) – *Information Systems* (*James McGill Professor and IMASCO Chair in I.S.*)

S. Ray; B.E.(Jad.), M.E.(Asian IT), Ph.D.(Wat.) – *Operations Management*

V. Verter; B.A., M.S.(Bogaziçi), Ph.D.(Bilkent) – *Operations Management* (*Director CRE34pAW Tf1 0 0 3.918 437.6 T37.6 Tm(g)Tj1 E 1 398.912 469.06 T0(V)Tj1 0 0*

Associate Professors

S. Mantere; M.Sc.(Eng.)(TKK), M.A.(Helsinki), Ph.D.(TKK) – *Strategy and Organization/MDIIM*

S. Mishra; B.A., M.A.(Delhi), M.B.A., Ph.D.(Ind.) – *Marketing*

A. Mukherjee; B.Eng.(Jadavpur), M.B.A.(Indian Inst. Manag.), Ph.D.(Texas-Austin) – *Marketing*

P. Perez-Aleman; B.Sc.(Calif., Berk.), Ph.D.(MIT) – *Strategy and Organization*

C. Phelps; B.A., M.B.A.(SDSU), M.Phil., Ph.D.(NYU) – *Strategy and Organization*

J. Ramaprasad; B.S.(L.A. Marshall), Ph.D.(Calif., Irvine) – *Information Systems*

B. Rubineau; B.S., B.S.(MIT), M.S.(Harv.), Ph.D.(MIT) – *Organizational Behaviour*

E. Sarigöllü; B.A., M.B.A.(Bogaziçi), M.A., Ph.D.(Penn.) – *Marketing*

S. Sarkissian; M.S.(Calif., Berk.), Ph.D.(Wash.) – *Finance*

H. Tan; B.A.(Hubei), M.A.(Wuhan), Ph.D.(Qu.) – *Accounting*

O. Toulan; B.Sc.(G'town), Ph.D.(MIT) – *Strategy and Organization*

D. Tsang; B.Com., M.A.(Tor.), M.S., Ph.D.(Calif., Berk.) – *Accounting*

E. Vaast; M.A.(Sciences Po), M.A.(Dauphine), M.Sc.(Cachan), Ph.D.(Paris) – *Information Systems*

D. Vakratsas; B.Sc.(Aristotle U.), M.Sc., Ph.D.(Texas) – *Marketing*

M. Yalovsky; B.Sc., M.Sc., Ph.D.(McG.) – *Operations Management*

Assistant Professors

K. An; B.A.(Yonsei University), M.A.(Seoul), Ph.D. Candidate(Tor.) – *Strategy and Organization*

D. Andrei; B.Sc.(HEC Lausanne), M.Sc.(HEC Lausanne), Ph.D.(HEC Lausanne) – *Finance*

P. Augustin; B.Ec., M.Ec.(L. Pasteur), M.Sc.(Luxembourg), Ph.D.(Stockholm) – *Finance*

M. Banerjee; B.A.(Exe.), M.Phil.(Camb.), Ph.D.(Cornell) – *Organizational Behaviour*

D. Demetry; B.A.(Emory), M.A., Ph.D.(N'western) – *Strategy and Organization*

T. Dotzel; M.B.A.(Texas-Arlington), Ph.D.(Texas A & M) – *Marketing*

J.P. Ferguson; B.A.(Okla.), M.A.(Johns Hop.), Ph.D.(MIT) – *Organizational Behaviour*

S. Gagnon; B.A.(Br. Col.); M.Sc.(Oxf.), Ph.D.(Lanc.) – *Organizational Behaviour*

A. Georghiou; M.Sc., Ph.D.(Lond.) – *Operations Management*

A. Ghosh; B.Sc.(Presidency), M.Res., Ph.D.(LSE) – *Finance*

D.H. Han; B.B.A., M.S.(Seoul), Ph.D.(Indiana Univ. Bloomington) – *Marketing*

M. Hollister; B.A.(Haver.), M.C.P.(MIT), Ph.D.(Harv.) – *Organizational Behaviour*

H. Kim; B.A., M.S.(Seoul), Ph.D.(Ind.) – *Marketing*

J. Kondo; B.A.(Princ.), Ph.D.(MIT) – *Finance*

B. Kucukyazici; B.Sc.(Marmara), M.Sc.(Yeditepe), Ph.D.(McG.) – *Operations Management*

D. Lee; B.A.(Hanyang), M.Acc.(Hawaii), Ph.D.(Utah) – *Accounting*

Y. (M.) Lu; B.A.(Peking), M.A., M.Phil., Ph.D.(Yale) – *Marketing*

A. Malkhozov; B.Ec.(Strasbourg), M.Ec.(Paris), M.Sc., Ph.D.(Lond.) – *Marketing*

E. Obukhova; B.A.(Flor.), M.S.(N'Western), Ph.D.(Chic.) – *Strategy and Organization*

S. Oh; B.B.A., M.Sc.(Seoul), Ph.D.(USC) – *Accounting*

J. Pruijssers; B.A.(Econ.)(McG.), M.Sc.(Law & Acct.)(LSE), M.Phil., Ph.D.(RSM, Erasmus) – *Accounting*

W. Qi; B.Eng.(Zhejiang), M.S.(Calif.-LA), Ph.D.(Calif., Berk.) – *Operations Management*

J-N. Reyt; B.A.(Paris X), M.Sc.(Fin. & StrateDauphine), M.Scgm.Phil.Etions Mana

Assistant Professors

J. Serpa; B.Sc.(Trent), M.A., Ph.D.(Br. Col.) – *Operations Management*

B. Wenzel; B.Acy., M.Acy.(Missouri), Ph.D.(Ariz.) – *Accounting*

N. Yang; B.Sc.(Math.)(Alta.), M.A.(Econ.)(Tor.), Ph.D.(Tor.) – *Marketing*

J. Zhang; B.S.(Zhongnan), M.A.(Boston), M.Sc.(Chic.), Ph.D.(N'western) – *Accounting*

CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members

A. Abrams; B.Com.(McG.), G.D.P.A.(C'dia) – *Accounting*

N. Addy; B.A.(Swarth.), M.P

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

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

vii. Some examples of the responsibilities of the University are:

- to register Postdocs;
- to provide an appeal mechanism in cases of conflict;
- to pro

- Research Associates

11.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

11.12.1 Anatomy and Cell Biology

11.12.1.1 Location

Department of Anatomy and Cell Biology
Strathcona Anatomy and Dentistry Building
3640 University Street, Room M/28
Montreal QC H3A 0C7
Canada
Telephone: 514-398-6350
Felepho504al QC H3A 0C7 0 05.915.795 eb2.0 Tmm(11. 0C7rg11. 0C7RG.1.2)Tj0 Tc/F1 8.1

section 11.12.1.6: 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 a 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. 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 successful careers in academic settings as well as in industry or other fields.

11.12.1.3 Anatomy and Cell Biology Admission Requirements and Application Procedures

11.12.1.3.1 Admission Requirements

Admission is based on the candidate’s academic record and letters of recommendation. A minimum cumulative grade point average (CGPA) of 3.0 out of 4.0 is required. Once a student has submitted all the required documents, the applicant’s file will be reviewed by the Graduate Admission Committee. Files that do not meet the minimum requirement will not be considered. Applicants must also be accepted by a research supervisor who is a faculty member or an associate member of the Department of Anatomy and Cell Biology (Adjunct members may serv

Assistant Professors

Susanne Bechstedt; B.Sc.(Flor. St.), M.Sc.(Friedrich Schiller Univ.), Ph.D.(Max Planck)

Khanh Huy Bui; M.Sc.(Chalmers Univ. of

Adjunct Professors

Patrick Freud; B.Sc., D.C.(Parker)

Michael Greenwood; B.Sc., M.Sc.(C'dia), Ph.D.(McG.)

David Hipfner; B.Sc., Ph.D.(Qu.)

Artur Kania; Ph.D.(Baylor)

Justin Kollman; Ph.D.(Calif.-San Diego)

Stephane Lefrancois; B.Sc., Ph.D.(McG.)

Alexei Pshezhetsky; Ph.D.(Moscow St.)

Isabelle Rouiller; Ph.D.(Hertfordshire)

Michael Sacher; Ph.D.(McG.)

Elitza Tocheva; B.Sc., Ph.D.(Br. Col.)

11.12.1.5 Master of Science (M.Sc.) Cell Biology (Thesis) (45 credits)

Thesis Course (24 credits)

ANAT 698	(24)	M.Sc. Thesis Research 1

Required Course (12 credits)

ANAT 601	(3)	MSc Seminar Examination
ANAT 695	(3)	Seminars in Cell Biology 1
ANAT 696	(3)	Seminars in Cell Biology 2
ANAT 697	(3)	Seminars in Cell Biology 3

Complementary Courses (9 credits)

6 credits from one of two streams: Cell Developmental Biology Stream or Human Systems Biology Stream

Cell Developmental Biology Stream

ANAT 663D1	(3)	Histology
ANAT 663D2	(3)	Histology
ANAT 690D1	(3)	Cell and Developmental Biology
ANAT 690D2	(3)	Cell and Developmental Biology

Human Systems Biology Stream

** This stream is currently under review. **

6 credits required:

ANAT 690D1	(3)	Cell and Developmental Biology
ANAT 690D2	(3)	Cell and Developmental Biology

3 credits selected from:

BMDE 502	(3)	BME Modelling and Identification
BMDE 519	(3)	Biomedical Signals and Systems
BTEC 501	(3)	Bioinformatics
COMP 564	(3)	Advanced Computational Biology Methods and Research

COMP 680	(4)	Mining Biological Sequences
EXMD 602	(3)	Techniques in Molecular Genetics
MIMM 613	(3)	Current Topics 1
MIMM 614	(3)	Current Topics 2
MIMM 615	(3)	Current Topics 3
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology

Upon consultation with the supervisor, students may select a 3-credit course outside of this list from Biomedical Science courses at the 500-600 level.

11.12.1.6 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
ANA	(3)	Seminars in Cell Biology 2

section 11.12.2.9: Doctor of Philosophy (Ph.D.) Biochemistry: Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

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 ov

Admission Requirements – Bioinformatics or Chemical Biology Option

As for the regular graduate programs of the Biochemistry Department, acceptance into the Bioinformatics or Chemical Biology option consists of two steps:

1. Preliminary approval by the Department's Graduate Admission Committee based on the student's transcript, references, and other documents submitted with the application. The criteria for assessment at this level are the same as for the regular graduate programs of the Department.
2. Acceptance by a Bioinformatics or Chemical Biology research director. The director must propose a research project for the student that provides training in the methods and philosophy of Chemical Biology. Project proposals are assessed by the Bioinformatics or Chemical Biology Program Committee.

11.12.2.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* for detailed application procedures. Information for prospective students is also available on the Department of Biochemsitry's *website*.

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*.

11.12.2.3.2.1 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 S

Professors

Nicole Beauchemin; B.Sc., M.Sc., Ph.D.(Montr.) (*joint appt. with Oncolo*

Associate Members

Erwin Schurr (*Ctr. for Host Resistance, MGH*)

Peter Siegel (*Goodman Cancer Ctr., Dept. of Medicine*)

Ivan Topisirovic (*Dept. of Oncology*)

Youla S. Tsantrizos (*Dept. of Chemistry*)

Bernard Turcotte (*Dept. of Medicine*)

Josie Ursini-Siegel (*Dept. of Oncology*)

Simon Wing (*Dept. of Medicine*)

Xiang-Jiao Yang (*Goodman Cancer Ctr., Dept. of Medicine*)

Adjunct Professors

Jacques Drouin (*IRCM*)

Michael Hallett (*C'dia, Dept. of Biology*)

Enrico Purisima (*NRC/BRI*)

Julie St-Pierre (*Ott.*)

11.12.2.5 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)

11.12.2.6 Master of Science (M.Sc.) Biochemistry (Thesis): Bioinformatics (45 credits)

Thesis Courses (30 credits)

BIOC 694	(3)	Thesis Research 4
BIOC 698	(12)	Thesis Research 2
BIOC 699	(15)	Thesis Research 3

Required Courses (6 credits)

BIOC 696	(3)	Seminars in Biochemistry
COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses* (9 credits)

3 credits to be chosen from the following courses:

BIOC 600	(3)	Advanced Strategies in Genetics and Genomics
BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
BIOC 605	(3)	Protein Biology and Proteomics
BIOC 670	(3)	Biochemistry of Lipoproteins
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus 6 credits from the following courses:

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

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

11.12.2.7 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 Discovery
PHAR 503	(3)	Drug Discovery and Development 1

and at least 3 credits from the following:

BIOC 600	(3)	Advanced Strategies in Genetics and Genomics
BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
BIOC 605	(3)	Protein Biology and Proteomics
BIOC 670	(3)	Biochemistry of Lipoproteins
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus additional credits, to a total of at least 11 complementary course credits from the following list:

CHEM 504	(3)	Drug Design
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)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
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.

11.12.2.8 Doctor of Philosophy (Ph.D.) Biochemistry

Thesis

BIOC 703**	(0)	Ph.D. Seminar
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 600	(3)	Advanced Strategies in Genetics and Genomics
BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
BIOC 605	(3)	Protein Biology and Proteomics
BIOC 670	(3)	Biochemistry of Lipoproteins
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus 6 credits from the following:

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.

11.12.2.10 Doctor of Philosophy (Ph.D.) Biochemistry: Chemical Biology

Thesis

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

Required Courses (7 credits)

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)	Ph.D. 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)**

At least 3 credits from the following:

CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
		Drug Discovery and DTj1 0 e2 560.401 Tm(At le 5s5.ihm y and DT58763.325 511.241lopCompeminar 1)Tj1 0 0 1 163.

Note: Applications for Winter or Summer term admission will not be considered.

11.12.3.4 Biomedical Ethics Faculty

Director

J. Kimmelman

Associate Professors

E. Bereza; B.A., M.D.,C.M.(McG.), C.C.F.P.(C)

C. 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)

J. Kimmelman; B.S.(Duke), Ph.D.(Yale)

N.B. King; B.A.(Penn.), M.A., Ph.D.(Harv.)

Associate Members

F. Carnevale (*Ingram School of Nursing*)

M. Hunt (*School of Physical & Occupational Therapy*)

Y. Joly (*Human Genetics*)

B.M. Knoppers (*Centre of Genomics and Policy*)

M.E. Macdonald (*MQHRG*)

T. Maniatis (*Bioethics*)

B. Thombs (*Psychology*)

D. Weinstock (*Institute for Heallth and Social Policy*)

M.H. Zawati (*Human Genetics*)

11.12.4 Biological and Biomedical Engineering

11.12.4.1 Location

Duff Medical Building
3775 University Street, Room 316
Montreal QC H3A 2B4
Canada
Website: *www.mcgill.ca/bbme*

11.12.4.2 About Biological and Biomedical Engineering

The Biological and Biomedical Engineering (BBME) graduate program is an interfaculty program involving the Department of Bioengineering in the Faculty of Engineering and the Department of Biomedical Engineering in the Faculty of Medicine. The BBME interfaculty program builds on the excellence and high standard of its predecessor graduate program in Biomedical Engineering. This broader interfaculty restructuring supports the growing trend in research universities toward formalized interdisciplinary studies and multifaculty collaboration.

BBME students come from a wide range of backgrounds including engineering, physics, chemistry, biology, and dentistry, among others. The multicultural diversity of our student body is a strength of the program, as networking and collaborative opportunities are vast. Students in BBME have supervisors associated with the program whose home departments will be spread primarily across the Faculties of Engineering and Medicine.

As researchers in this field unravel the molecular and physiological mechanisms of biology, develop increasingly advanced technologies to transform healthcare, or attempt to reverse-engineer naturally occurring biological solutions, devices, and procedures, alumni of the BBME program are poised to play a critical role in shaping our global future.

Please consult our *website* for additional information.

Research Domains

Our faculty members are particularly active in research related to the development of quantitative analysis tools and instruments for biological and biomedical research. The ultimate goal is the pursuit of answers to biological and medical questions. Ongoing biological and biomedical engineering research at McGill includes:

- signal analysis, including brain (EEG), muscles (EMG), eyes (EOG), respiration, and mass spectrometry;
- systems analysis, including neuromuscular control, and oculomotor and vestibular control;
- experimental and computational biomechanics, including orthopedic and auditory mechanics;
- biomaterials, including artificial cells;
- medical imaging and image processing;
- micro and nanotechnology and biosensors;
- nanoparticles and cell imaging;
- bioinformatics and computational biology;
- computers in medical education, including interactive 3D models and haptics;
- biological materials and mechanics;
- biomolecular and cellular engineering, and regenerative medicine;
- biomedical, diagnostics, and high throughput screening engineering;
- mechanics of disease;
-

See *Univer*

Complementary Courses (18 credits)

3 credits from the following quantitative courses:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 520	(3)	High Throughput Bioanalytical Devices
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 550	(3)	Biomolecular Devices
BIEN 560	(3)	Biosensors
BIEN 570	(3)	Active Mechanics in Biology
BIEN 590	(3)	Cell Culture Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
BMDE 610	(3)	Functional Neuroimaging Fusion
BMDE 660	(3)	Advanced MR Imaging and Spectroscopy of the Brain

6 credits from the following:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 520	(3)	High Throughput Bioanalytical Devices
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 550	(3)	Biomolecular Devices
BIEN 560	(3)	Biosensors
BIEN 570	(3)	Active Mechanics in Biology
BIEN 590	(3)	Cell Culture Engineering
BIEN 680	(4)	Bioprocessing of Vaccines

MDPH 607	(3)	Medical Imaging

9 credits at the 500-level or higher chosen from a list on the program web site https://www.mcgill.ca/bbme/students/courses or from other courses, at the 500 level or higher, at least 3 credits of which have both life sciences content and content from the physical sciences, engineering, or computer science, with the prior written approval of the Thesis Supervisor and the Graduate Program Director.

11.12.4.6 Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The goal of the Biological and Biomedical Engineering Ph.D. program is for students to gain advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus in an area of choice while integrating quantitative concepts and engineering tools for the study of life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. The program will prepare students for careers in academia, industry, hospitals and government. Students who complete the program will obtain a Doctor of Philosophy in Biological and Biomedical Engineering.

11.12.5.4 Biomedical Engineering Faculty

Chair

D. Juncker

Emeritus Professor

T.M.S. Chang; B.Sc., M.D.,C.M., Ph.D.(McG.), F.R.C.P.(C), F.R.S.(C) (*joint appt. with Physiology*)

Professors

D.L. Collins; B.Sc., M.Eng., Ph.D.(McG.) (*joint appt. with Neurology and Neurosurgery*)

H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)

D. Juncker; Dipl., Ph.D.(Neuch-S0 10oB23l52 698.96 Ter; Dipl., Ph.D.(Neuch-S0s; B.S.ndM.D.,C.M., Ph.D.(McG.), Fo4. KPh.D.(Neuch-.5293.(McG.), earne/F1 8.1

Associate Members

R. Leask (*Chemical Engineering*)

I. Levesque (*Medical Physics and Oncology*)

J. Li (*Mechanical Engineering*

Complementary Courses (6 credits)

Students must complete 6 credits of biomedical engineering course work selected from one or more of the following domains or other appropriate courses at the 500 level or higher approved by the Program Director:

General Biomedical Engineering

BMDE 501	(3)	Selected Topics in Biomedical Engineering

Biomedical Signals and Systems

BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems

Medical Imaging

BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BMDE 610	(3)	Functional Neuroimaging Fusion
BMDE 650	(3)	Advanced Medical Imaging
MDPH 607	(3)	Medical Imaging

Biomaterials and Tissue Engineering

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BMDE 504	(3)	Biomaterials and Bioperformance
BMDE 505	(3)	Cell and Tissue Engineering

Biosensors and Devices

BIEN 520	(3)	High Throughput Bioanalytical Devices
		Biomolecular De

11.12.6.2 About Communication Sciences and Disorders

The School provides both professional and research training in communication sciences and disorders at the graduate level through its **M.Sc. (Applied)**, **M.Sc.**, and **Ph.D.** degrees. We were the first department in Canada to provide both clinical and research degrees. Our M.Sc.A. program aims to educate the next generation of well-prepared and innovative speech-language pathology professionals by providing enriched classroom training, clinical laboratory activities that enhance the transition from theory to practice, and outstanding clinical practicum experiences. Our research degrees are designed to develop leading researchers and scholars, who will go on to train future investigators in the field of communication sciences and disorders and who, through their research, will advance our understanding of the processes of human communication and its breakdown.

Interdisciplinary interactions are at the core of our research training approach, which includes preparation to conduct both fundamental and clinically applied investigations. Our professors have collaborative ties with many departments and institutes of McGill, including:

- psychology
- linguistics
- neuroscience
- otolaryngology
- biomedical engineering
- Montreal Neurological Institute and Hospital
- other Montreal universities

They also maintain national and international collaborations. Students can access this rich collaborative network via the *McGill Centre for Research on Brain, Language and Music*, a world-class interdisciplinary research centre established by the School. The multilingual context in which we reside provides a unique environment for language research.

The School offers:

- a professional degree in Communication Sciences and Disorders at the M.Sc. (Applied) level with specialization in Speech Language Pathology
- two research degrees: an M.Sc. (Research) and a Ph.D. in Communication Sciences and Disorders

Requirements for Licensure

The majority of provinces in Canada and certain states in the U.S. require that those intending to practise as speech-language pathologists within their borders comply with special provincial or state licensing regulations. Graduates wishing to practise in the province of Quebec must be members of the *Ordre des Orthophonistes et Audiologistes du Québec* (OOAQ) in order to call themselves speech-language pathologists. Further information is available from the OOAQ at:

630 Sherbrooke St. W., bureau 800
Montreal QC H3A 1E4
Telephone: 514-282-9123
Email: *info@ooaq.qc.ca*
Website: *www.ooaq.qc.ca*

Quebec law requires that candidates seeking licensure in provincially recognized professions demonstrate a verbal and written working knowledge of the French language. See *University Regulations & Resources* > *Undergraduate* > *Admission to Professional and Graduate Studies* > *: Language Requirements for Professions*.

Funding

IODE Canada funds two $1,000 “Silence to Sound” awards for studies in hearing impairment. These in-course awards are based on academic merit, Canadian citizenship, financial need, and potential for excellence, and are awarded by the School with approval of funds by IODE Canada.

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: two $750 awards.

section 11.12.6.6: Master of Science,

section 11.12.6.6: Master of Science, Applied (M.Sc.A.) Communication Sciences & Disorders (Non-Thesis): Speech-Language Pathology (82 credits)

in theory to address challenging clinical issues. Our M.Sc.A. graduates typically pursue professional careers 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 11.12.6.5: Master of Science (M.Sc.) Communication Sciences and Disorders (Thesis) (45 credits)

Selected candidates may be accepted into the M.Sc. research degree program. 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, some working in clinical settings (if they also have a clinical degree) or settings that combine clinical and research activities, and others continuing their research training at the doctoral level.

section 11.12.6.7: Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders

Selected candidates may be accepted into the Ph.D. research degree program. 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 11.12.6.8: Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders: Language Acquisition

Information about this option is available from the School and from *www.psych.mcgill.ca/lap.html* and *www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities*. This unique interdisciplinary Ph.D. program is available for doctoral students across four departments at McGill including SCSD, Linguistics, Psychology, and Integrated Studies in Education. The program is designed to provide enriched training focused on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology. In addition to the SCSD Ph.D. requirements, students in this program must complete 6 credits of coursework in language acquisition (including at least one course that is not in their home department), and four interdisciplinary seminars (2 credits each) and must include a faculty member in the Language Acquisition Program on their thesis committee.

11.12.6.3 Communication Sciences and Disorders Admission Requirements and Applications Procedures

11.12.6.3.1 Admission Requirements

M.Sc. (Applied)

An applicant must hold an undergraduate degree with a minimum B average (3.0 on a 4.0 point scale) or better in areas relevant to the selected field of specialization. Specific requirements are 3 credits in statistics, a total of 18 credits across the disciplines of psychology and linguistics (with a minimum of 6 credits in each discipline). Please refer to *www.mcgill.ca/scsd/programs/slp/how-apply/prerequisite-courses* for important details on the na0 1 4Ai(324 4Ai(3241 g/F1

11.12.6.4 Communication Sciences and Disorders Faculty

Director and Associate Dean

Marc D. Pell

Graduate Program Director

Linda Polka

Professors

Shari R. Baum; B.A.(Cornell), M.S.(Vermont), M.A., Ph.D.(Brown)

Marc D. Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)

Linda Polka; B.A.(Slippery Rock), M.A.(Minn.), Ph.D.(S. Flor.)

Susan Rvachew; B.Sc.(Alta.), M.Sc., Ph.D.(Calg.)

Karsten Steinhauer; M.Sc., Ph.D.(Dr.rer.nat)(Free Univ., Berlin)

Elin Thordardottir; B.A., M.Sc., Ph.D.(Wisc.-Madison)

Associate Professors

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

Noémie Auclair-Ouellet; B.A., M.Sc., Ph.D.(Laval)

Nicole Yee-Key Li-Jessen; B.Sc., M.Phil.(HK), Ph.D.(Pitt.)

Assistant Professors (Professional)

Kelly Root; B.A.(Ott.), M.Sc.(Dal.) (*on leave*)

Sophie Vaillancourt; B.Sc., M.O.A.(Montr.), M.B.A.(McG.)

Faculty Lecturers

Mariska Burger; B.Sc.(Heerlen)

Lauren Tittley; B.Sc.(McG.), M.H.Sc.(Tor.)

Assistant Professors (Part-Time)

Christina Lattermann; Staatlich anerkannte Logopaedin(Westfaelische Wilhelms-Universität, Muenster), M.Sc.(McG.), Ph.D.(Kassel)

Rosalee Shenker; B.Sc.(Syrac.), M.A.(Calif. St.), Ph.D.(McG.)

Faculty Lecturers (Part-Time)

Mary Jane Blais; B.Sc., M.Sc.(McG.)

Liliane Brunetti; B.Sc.(C'dia), M.Cl.Sc.(W. Ont.)

Jesse Burns; B.A.(C'dia), M.Sc.(McG.)

Dahlia Forrester; B.A.(UWI)

Ariana Fraid; B.A., M.Sc.A.(McG.)

Alexandre Herbay; B.Sc.(Montr.)

Suzanne Lalonde; B.A.(Montr.), M.Sc.A.(McG.)

Lisa Massaro; B.A.(York), M.Sc.A.(McG.)

Maia Masuda; B.Mus., M.Sc.A.(McG.)

Gina Mills; B.Sc.(Acad.), M.Sc.(Dal.)

Faculty Lecturers (Part-Time)

Yondu Mori; B.Sc.(Alta.)

Amanda Ovadia; B.Sc., M.Sc.A.(McG.)

Francois Prevost; B.Sc.(Montr.), M.Sc.(Ott.), Ph.D.(Montr.)

Eve Julie Rioux; B.A.(Montr.), M.Sc.A.(McG.)

Part-Time Professor, Post-Retirement

Vincent Gracco; B.A., M.A.(San Diego), Ph.D.(Wisc.-Madison)

Adjunct Professors

Krista Byers-Heinlein (*C'dia*)

David McFarland (*Montr.*)

Lucie Menard (*UQAM*)

Doug Shiller (*McG.*)

Associate Member

Eva Kehayia (*Physical and Occupational Therapy*)

Luc Mongeau (*Mechanical Engineering*)

Debra Titone (*Psychology*)

11.12.6.5 Master of Science (M.Sc.) Communication Sciences and Disorders (Thesis) (45 credits)

Thesis Courses (24 credits)

SCSD 671	(12)	M.Sc. Thesis 1
SCSD 672	(12)	M.Sc. Thesis 2

Complementary Courses (21 credits)

6-21 credits chosen from:

SCSD 675	(12)	Special Topics 1
SCSD 676	(9)	Special Topics 2
SCSD 677	(6)	Special Topics 3
SCSD 678	(3)	Special Topics 4

0-15 credits chosen from:

SCSD 673	(12)	M.Sc. Thesis 3
SCSD 674	(3)	M.Sc. Thesis 4

or courses in other departments, as arranged with the student's thesis supervisor.

11.12.6.6 Master of Science, Applied (M.Sc.A.) Communication Sciences & Disorders (Non-Thesis): Speech-Language Pathology (82 credits)

The professional degree program involves two academic years of full-time study and related practical work, followed by a Summer internship.

Required Courses (79 credits)

IPEA 500	(0)	Roles in Interprofessional Teams
IPEA 501	(0)	Communication in Interprofessional Teams

IPEA 502	(0)	Patient-Centred Care in Action
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 664	(3)	Augmentative and Alternative Communication
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 688	(1)	Genetics in Speech-Language Pathology Practice
SCSD 689	(1)	Management Cranio-Facial Disorders

Complementary Courses (3 credits)

3 credits from the following:

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

11.12.6.7 Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders

The Ph.D. program provides a foundation for creative research and scientific problem-solving in communication sciences (speech, language, hearing, voice) in typical and atypical populations. The program structure is flexible to encourage students to customize their program through the selection of coursew

For PhD 1 students, 0-2 credits from the following:

EDSL 711	(2)	Language Acquisition Issues 3

In addition to the above, students entering at PhD 1 must take the following 15 credits:

SCSD 654	(3)	Advanced Research Seminar 3
SCSD 685	(3)	Research Project 1
SCSD 686	(3)	Research Project 2

Plus 6 credits, of graduate-level courses pre-approved by the supervisor and the graduate program director.

11.12.7 Epidemiology and Biostatistics

11.12.7.1 Location

Department of Epidemiology, Biostatistics and Occupational Health
1020 Pine Avenue West
Montreal QC H3A 1A2
Canada
Telephone: 514-398-6258
Email: *graduate.eboh@mcgill.ca*
Website: *www.mcgill.ca/epi-biostat-occh*

11.12.7.2 About Epidemiology and Biostatistics

The Department offers **master's and doctoral programs in both Epidemiology and Biostatistics**, as well as a **Master's of Science in Public Health**. The methods learned in these fields are used not only in the study of diseases, but also in clinical research; health services research; public health; program planning and evaluation; and policy development. Our faculty members are at the forefront of their research domains and include epidemiologists, biostatisticians, clinician scientists, medical informatics specialists, public health specialists, health economists, medical sociologists, and health geographers.

Research in the Department spans a broad range of areas, including:

- biostatistics;
- clinical and public health informatics;
- environmental and occupational health;
- health care delivery and organization;
- infectious diseases;
- pharmacoepidemiology;
- population and public health;
- social epidemiology;
- epidemiologic methods;
- chronic diseases;
- reproductive and perinatal epidemiology;
- genetic epidemiology;
- global health;
- causal inference;
- and many cross-disciplinary activities.

Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

11.12.7.3 Epidemiology, Biostatistics and Occupational Health Faculty

Chair
G. Paradis

Associate Members

Neurology and Neurosurgery: C, Renoux

Ob/Gyn: H. Abenhaim, R. Gagnon

Pediatrics: M. Ben Shoshan, E. Constantin, G. Dougherty, P. Fontela, B. Foster, P.T-S. Lee, M. Nakhla, M. Oskoui, J. Papenburg, M. Zappitelli

Physical and Occupational Therapy: S. Ahmed

Psychiatry: S.N. Iyer, E. Latimer, A. Malla, X. Meng, N. Schmitz, B. Thombs

Sociology: S. Clark

Surgery: A. Andalib, D. Deckelbaum, F-H. (L) Lee, A. N. Merguerditchian

Lecturers

J.P. Courteau, C. Fuller, P. Gasparini, M. Kafka, C. Kom Mogto, S.-A. Mercure, C. Paquette, B. Pinard, N. Savard, N. Titri, W. Wood

Adjunct Professors

Asociación Civil Selva Amazónica Peru: M. Casapia

Boehringer Ingelheim GmbH: D. Bartels

Bristol-Myers Squibb Canada: A.A. Tahami Monfared

Caro Research: J. Caro

CISSS Abitibi-Témiscamingue: O. Sobanjo

Concordia University: P.E. Boileau

Contex: J.P. Gauvin

DRSP Montréal: C. Dea, G. Denis, A. Kossowski, R. Lessard, R. Massé, S. Palmieri, S. Perron, M. Roy

Harvard Univ.: J. Brownstein

Health Canada: C. Gravel

Hôpital Ste. Justine: M. Henderson

Independent: I. Arnold, E. Braithwaite, L. De Montigny, K. Morrison, K. Krishnan, C. Larson, J. Lemke, L. Scott

INESSS: D. Roy

INSPQ: N. Auger, E. Lo, S. Perron, S. Stock

Montreal Chest Hospital Centre: P. Rohan

Mount Sinai: M. Baltzan

Ottawa Public Health: G. Cadieux

Public Health Agency of Canada: G. Thomas-Reilly

Shire Inc.: A. Koutsavlis

Univ. of Bern: A. Chiolero

Univ. of Calgary: A Clarke

Univ. Hospital Basel: J.R. Young

Univ. de Montréal: C. Quach-Thanh, A. Motulsky, M.E. Schnitzer, J. Siemiatycki

Univ. de Sherbrooke: C. Rochefort

11.12.7.4 Epidemiology

The Department offers master's and doctoral degrees in Epidemiology. The methods learned in these fields are used not only in the study of diseases, but also in clinical research, health services research, public health, program planning and evv

- health care delivery and organization;
- infectious diseases;
- pharmacoepidemiology;
- population and public health;
- social epidemiology;
- epidemiologic methods;
- chronic diseases;
- reproductive and perinatal epidemiology;
- genetic epidemiology;
- global health;
- causal inference;
- and many cross-disciplinary activities.

Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

section 11.12.7.4.3: Master of Science (M.Sc.) Epidemiology (Thesis) (48 credits)

Applicants to the M.Sc. program should preferably hold a bachelor's degree in the natural sciences (e.g., chemistry, microbiology, human genetics), quantitative sciences (e.g., computer science, statistics), or social sciences (e.g., sociology, psychology, economics, geography), or hold a degree in one of the health professional sciences (e.g., medicine, nursing, social work, nutrition). Applicants must have an interest in health research, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate level.

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 11.12.7.4.4: Master of Science (M.Sc.) Epidemiology (Non-Thesis): Environmental & Occupational Health (48 credits)

This program provides in-depth training in methods used in Environmental and Occupational Health (EOH) and the application of these methods to study the effects of environmental and occupational exposures on human health. Students will be provided with tools to critically evaluate studies in EOH and be able to participate in these studies; learn how to apply specific methods to environmental and occupational problems; and understand how to apply research results to public health or policy

section 11.12.7.4.9: Doctor of Philosophy (Ph.D.) Epidemiology

careers in public health, health planning, and quality monitoring in local, regional, federal, and international health authorities, statistical and technology assessment agencies, the pharmaceutical industry, and in clinical and academic research organizations. McGill graduates are known for their methodological and quantitative rigour and quantitative analytic independence. While their core training is in methods, rather than specific substantive areas, students learn about substantive areas in the context of their research and through elective courses.

section 11.12.7.4.10: Doctor of Philosophy (Ph.D.) Epidemiology: Global Health

Students admitted to the Ph.D. degree in Epidemiology who have an interest in global health can receive additional recognition for completing the Global Health Option within their degree program. Students can fulfill the requirements for both the Ph.D. and the Global Health Option within the normal Ph.D. timeline. Over and above the core Ph.D. training, students in the Global Health Option will undertake global health-dedicated coursework and their thesis will be of relevance to global health. This additional global health training will provide students with insight into the major global health challenges of today's world. This area of study, research, and practice prioritizes improving health and achieving equity in health for all people worldwide. McGill and its affiliated hospitals have close to 200 researchers involved in global health work, from basic biomedical research on tropical diseases to large-scale population studies on the social determinants of health. Students at McGill can be exposed to the work of 20 teams working in all major areas of global health, including Infectious and Tropical Diseases; Global Environmental Health; and Global Mental Health, among others. For more information, visit *www.mcgill.ca/globalhealth*. With this additional Global Health qualification, Ph.D. graduates will benefit from opportunities for future training or work in those institutions or organizations that are active in global health.

section 11.12.7.4.11: Doctor of Philosophy (Ph.D.) Epidemiology: Pharmacoepidemiology

The Pharmacoepidemiology Option of the Ph.D. Program may be of interest to students from the natural or quantitative sciences (e.g., microbiology, computer science, biostatistics, statistics, economics), Public or Population Health, or Epidemiology, or who hold a degree in one of the health professional sciences (e.g., medicine, pharmacy). Applicants must have an interest in the epidemiology of medications, along with strong conceptual, analytic, and quantitative skills (e.g., differential and integral calculus, statistics) at the undergraduate level. The Pharmacoepidemiology Option prepaltssessment age0444s.973 587.

- global health.

Graduates are highly sought after for careers in government agencies, NGOs, clinical settings, research, and industry.

section 11.12.7.4.6: Master of Science (M.Sc.) Public Health (Non-Thesis) (60 credits)

The mission of the Master of Science in Public Health is to train outstanding public health professionals and future leaders by offering a rigorous academic program in methods, research, and practice. This program may be of interest for students from the natural or quantitative sciences (e.g., microbiology, computer science, statistics, economics, geography), social sciences (e.g., sociology, psychology, anthropology), or the health professions (e.g., medicine, nursing, social work, physical and occupational therapy, nutrition). Through a core series of courses, a wide range of electives, and a practicum, students will acquire knowledge and skills in all the core competencies of public health, including public health sciences; assessment and analysis; policy and program planning, implementation and evaluation. Graduates of the program will serve as public health practitioners or research professionals and will possess the competencies and professionalism to carry out broad public health functions in local, provincial, national, and international settings. In exceptional circumstances, the Admissions Committee may take professional experience into account for mid-career or returning/re-entry applicants.

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

Completed applications, with all supporting documents, must be uploaded directly to the McGill admissions processing system by the application deadlines.

Please see our website, *www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying*, for information on required documents.

11.12.7.4.2.1.1 Additional Requirements

Please consult *www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying* for information on our requirements.

11.12.7.4.2.1.2 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines			
	All Applicants	**Non-Canadian citizens**	**Canadian citizens/Perm. residents of Canada**	**Current McGill Students (any citizenship)**	**Special, Visiting & Exchange Students**
Fall Term:	Sept. 15	Dec. 15	Dec. 15	Dec. 15	April 30
Winter Term:	Feb. 15	N/A	N/A	N/A	Sept. 10
Summer Term:	N/A	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

11.12.7.4.3 Master of Science (M.Sc.) Epidemiology (Thesis) (48 credits)

Students will study the foundations and principles of epidemiology and applied biostatistics, in order to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological health-related research. Graduates will be prepared to engage in scientific collaboration, and communicate results to other scientists and diverse audiences.

Thesis Course (24 credits)

EPIB 690	(24)	M.Sc. Thesis

Required Courses (21 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

EPIB 601	(4)	Fundamentals of Epidemiology
EPIB 603	(4)	Intermediate Epidemiology
EPIB 605	(1)	Critical Appraisal in Epidemiology
EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software
EPIB 621	(4)	Data Analysis in Health Sciences
PPHS 602	(3)	Foundations of Population Health

Complementary Course (3 credits)

3 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

11.12.7.4.4 Master of Science (M.Sc.) Epidemiology (Non-Thesis): Environmental & Occupational Health (48 credits)

This program provides in-depth training for graduate students in methods used in Environmental and Occupational Health (EOH) and the application of these methods to study the effects of environmental and occupational exposures on human health. Students will be provided with tools to critically evaluate studies in EOH, as well as to be able to participate in these studies, learn how to apply specific methods to environmental and occupational problems, and understand how to apply research results to public health or policy. Career opportunities exist in academia, industry, and the public health sectors. Each student will be assigned a supervisor to provide guidance for their project. Research topics must be related to environmental and occupational health and approved by the program coordinating committee.

Research (12 credits)

EPIB 691	(12)	Research Project in Epidemiology

Required Courses (30 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

EPIB 601	(4)	Fundamentals of Epidemiology
EPIB 603	(4)	Intermediate Epidemiology
EPIB 605	(1)	Critical Appraisal in Epidemiology
EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software
EPIB 621	(4)	Data Analysis in Health Sciences
EPIB 684	(3)	Principles of Environmental Health Sciences 1
EPIB 685	(3)	Principles of Environmental Health Sciences 2
EPIB 686	(3)	Environmental Health Seminar
PPHS 602	(3)	Foundations of Population Health

Complementary Courses (6 credits)

6 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Complementary courses are meant to further the student's general knowledge in environment, environmental health, methodologies, and related aspects to a student's project.

11.12.7.4.5 Master of Science (M.Sc.) Epidemiology (Non-Thesis): Pharmacoepidemiology (48 credits)

This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will develop knowledge and capacity to critically evaluate pharmacoepidemiologic studies, learn how to apply specific methods and understand how to apply research results for knowledge translation or policy purpose. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Research (12 credits)

EPIB 691	(12)	Research Project in Epidemiology

Required Courses (25 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits at the 500 level or higher.

EPIB 601	(4)	Fundamentals of Epidemiology
EPIB 603	(4)	Intermediate Epidemiology
EPIB 605	(1)	Critical Appraisal in Epidemiology
EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software
EPIB 621	(4)	Data Analysis in Health Sciences
EPIB 634	(3)	Fundamentals of Pharmacoepidemiology
EPIB 662	(1)	Pharmacological Basis of Pharmacoepidemiology
PPHS 602	(3)	Foundations of Population Health

Complementary Courses (11 credits)

11 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Courses must be approved by the program's academic adviser.

11.12.7.4.6 Master of Science (M.Sc.) Public Health (Non-Thesis) (60 credits)

Students will study the foundations and principles of epidemiology and biostatistics as applied to public health research and practice in order to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological public health-related research. The program will include a three-month practicum after the first year.

Practicum/Project (9 credits)

PPHS 630	(9)	MScPH Practicum/Project

Required Courses (30 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

EPIB 601	(4)	Fundamentals of Epidemiology
EPIB 603	(4)	Intermediate Epidemiology
EPIB 605	(1)	Critical Appraisal in Epidemiology
EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software
EPIB 621	(4)	Data Analysis in Health Sciences
PPHS 602	(3)	Foundations of Population Health
PPHS 612	(3)	Principles of Public Health Practice
PPHS 629D1	(1)	MScPH Forum 1
PPHS 629D2	(1)	MScPH Forum 1
PPHS 631*	(4)	MScPH Forum 2
PPHS 631D1	(2)	MScPH Forum 2
PPHS 631D2	(2)	MScPH Forum 2

* with departmental permission only.

Note: Students take either PPHS 631 or PPHS 631D1/D2

Complementary Courses (12 credits)

12 credits of coursework at the 500 level or higher, with a minimum of 3 credits chosen from each of the following fields:

Environmental Health Sciences

GEOG 503	(3)	Advanced Topics in Health Geography
OCCH 602	(3)	Occupational Health Practice
PPHS 529	(3)	Global Environmental Health and Burden of Disease

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Health Services Research Policy and Management

PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 527	(3)	Economics for Health Services Research and Policy
PPHS 528	(3)	Economic Evaluation of Health Programs

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Population and Public Health Interventions (social and behavioural science)

PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 624	(3)	Public Health Ethics and Policy

SOCI 515	(3)	Medicine and Society
SOCI 588	(3)	Biosociology/Biodemography

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Field Epidemiology or Epidemiology in Practice

OCCH 604	(3)	Monitoring Occupational Environment
PPHS 615	(3)	Introduction to Infectious Disease Epidemiology
PPHS 616	(3)	Principles and Practice of Public Health Surveillance

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Electives (9 credits)

9 credits of coursework, at the 500 level or higher.

Students may choose to focus on more advanced methods in epidemiology, biostatistics, geography, etc. or substantive areas such as environmental or occupational health, or to select a variety of courses that will deepen their general knowledge of the disciplines that influence population and public health.

Courses will be selected with and approved by the Program's Academic Adviser.

11.12.7.4.7 Master of Science (M.Sc.) Public Health (Non-Thesis): Global Health (60 credits)

This option will provide enhanced training in global health to graduate students registered in the M.Sc. Public Health degree program at McGill. Students will become familiar with topics of global health relevance and incorporate this into their core coursework and practicum or project research. The practicum or research project must be relevant to global health, conducted in a global health setting, and approved by the Global Health Coordinating Committee. Contextualizing the core training students receive in public health and in their respective substantive disciplines within the global health research domain will enhance their academic experience. Graduates of this option will be prepared to pursue further training in global health or to undertake a variety of career opportunities in global health in Canada or internationally.

Practicum/Project (9 credits)

PPHS 630	(9)	MScPH Practicum/Project

Required Courses (33 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

EPIB 601	(4)	Fundamentals of Epidemiology
EPIB 603	(4)	Intermediate Epidemiology
EPIB 605	(1)	Critical Appraisal in Epidemiology
EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software
EPIB 621	(4)	Data Analysis in Health Sciences
PPHS 511	(3)	Fundamentals of Global Health
PPHS 602	(3)	Foundations of Population Health
PPHS 612	(3)	Principles of Public Health Practice
PPHS 629D1	(1)	MScPH Forum 1
PPHS 629D2	(1)	MScPH Forum 1
PPHS 631D1	(2)	MScPH Forum 2
PPHS 631D2	(2)	MScPH Forum 2

Complementary Courses (18 credits)

12 credits of coursework at the 500 level or higher, with a minimum of 2 credits chosen from each of the following fields:

Environmental Health Sciences

GEOG 503	(3)	Advanced Topics in Health Geography
OCCH 602	(3)	Occupational Health Practice
PPHS 529	(3)	Global Environmental Health and Burden of Disease

Or other courses, at the 500 level or higher, selected with the Program's Academic Adviser.

Health Services Research Policy and Management

PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 527	(3)	Economics for Health Services Research and Policy

EPIB 607	(4)	Inferential Statistics
EPIB 613	(1)	Introduction to Statistical Software

ECON 634	(3)	Economic Development 3
ECON 641	(3)	Labour Economics
ECON 734	(3)	Economic Development 4
ECON 741	(3)	Advanced Labour Economics
	(3)	Empirical Microeconomics

EPIB 706	(3)	Doctoral Seminar in Epidemiology
EPIB 707	(3)	Research Design in Health Sciences

Complementary Courses (9 credits)

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics and 6 credits in epidemiology and/or substantive topic (normally related to the thesis topic). Courses must be chosen in consultation with the student's supervisor and/or the degree program's director or adviser.

11.12.7.4.10 Doctor of Philosophy (Ph.D.) Epidemiology: Global Health

This option will provide enhanced training in global health to graduate students registered in the Ph.D. in Epidemiology; Global Health degree program at McGill. Students will become familiar with topics of global health relevance and incorporate this into their core coursework and thesis research. The thesis must be relevant to global health and approved by the Global Health Coordinating Committee. Contextualizing the core training students receive in epidemiology and in their respective substantive discipline within the global health research domain will enhance their academic experience. Graduates of this option will be prepared to pursue further training in global health or to undertake a variety of career opportunities in global health in Canada or internationally.

Students admitted to the Ph.D. in Epidemiology; Global Health degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 31 credits of Ph.D. courses.

In addition to the Ph.D. requirements,

SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population

11.12.7.4.11 Doctor of Philosophy (Ph.D.) Epidemiology: Pharmacoepidemiology

This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will acquire the skills to become independent investigators and conduct original research in pharmacoepidemiology. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Students admitted to the Ph.D. in Epidemiology; Pharmacoepidemiology degree program with the equivalent of the M.Sc. in Epidemiology at McGill will be required to take a minimum of 28 credits of Ph.D. courses.

In addition to the Ph.D. requirements, students admitted to the Ph.D. degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, excluding thesis course(s), as determined by the Department.

Thesis

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

Required Courses (25 credits)

		Research Design in Health Scie

EPIB 701	(0)	Ph.D. Comprehensive Examination
EPIB 702	(0)	Ph.D. Proposal
EPIB 703	(2)	Principles of Study Design
EPIB 704	(4)	Doctoral Level Epidemiologic Methods 1
EPIB 705	(4)	Doctoral Level Epidemiologic Methods 2
EPIB 706	(3)	Doctoral Seminar in Epidemiology
EPIB 707	(3)	Research Design in Health Sciences
SOCI 545	(3)	Sociology of Population
SOCI 626	(3)	Demographic Methods

Complementary Courses (9 credits)

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics, 3 credits in epidemiology, and 3 credits from courses approved for the Population Dynamics Option from the list below:

ECON 622	(3)	Public Finance
ECON 634	(3)	Economic Development 3
ECON 641	(3)	Labour Economics
ECON 734	(3)	Economic Development 4
ECON 741	(3)	Advanced Labour Economics
ECON 742	(3)	Empirical Microeconomics
ECON 744	(3)	Health Economics
EPIB 648	(3)	Methods in Social Epidemiology
EPIB 681	(3)	Global Health: Epidemiological Research
PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 528	(3)	Economic Evaluation of Health Programs
PPHS 529	(3)	Global Environmental Health and Burden of Disease
PPHS 615	(3)	Introduction to Infectious Disease Epidemiology
SOCI 502	(3)	Sociology of Fertility
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 588	(3)	Biosociology/Biodemography

Courses must be chosen in consultation with the student's supervisor and/or the degree program's director or adviser.

11.12.7.5 Biostatistics

Biostatistics involves the development and application of statistical methods to scientific research in areas such as medicine, epidemiology, public health, occupational and environmental health, genetics, and ecology. Biostatisticians play key roles in designing studies—from helping to formulate the questions that can be answered by data collection to the decisions on how best to collect the data—and in analyzing the resulting data. Our biostatistics faculty work in close collaboration with epidemiologists, clinicians, public health specialists, basic scientists, and other health researchers. They also develop new statistical methods for such data. Students will take courses, and may do research, on topics such as:

- generalized linear models;
- longitudinal data;
- mathematical statistics;
- causal inference;

- statistical methods for epidemiology;
- survival analysis.

The Department of Epidemiology, Biostatistics, and Occupational Health has one of the largest concentrations of Ph.D.-level statisticians in health sciences in any Canadian university. Faculty members may have funding available for students through their research grants. We provide rich research environments at five university-affiliated hospitals, public health agencies, and university research centres. Graduates pursue careers in academia, clinical settings, government agencies, NGOs, and industry.

section 11.12.7.5.2: Master of Science (M.Sc.) Biostatistics (Thesis) (48 credits)

M.Sc. Thesis students study a foundational set of courses, and write a thesis on a topic of their choice. Thesis students should have a strong interest in research. These students are well-placed to either continue in a Ph.D. program or to w

	Application Opening Dates	Application Deadlines			
Winter Term:	Feb. 15	N/A	N/A	N/A	Sept. 10
Summer Term:	N/A	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; late and/or incomplete applications will not be considered.

11.12.7.5.2 Master of Science (M.Sc.) Biostatistics (Thesis) (48 credits)

Training in statistical theory and methods, applied data analysis, scientific collaboration, communication, and report writing by coursework and thesis.

Thesis Courses (24 credits)

BIOS 690	(24)	M.Sc. Thesis

Required Courses (24 credits)

Students exempted from any of the courses listed below must replace them with complementary course credits, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

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

11.12.7.5.3 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.

11.12.7.5.4 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

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contrib

Administration

Rimi Joshi – *Student Affairs Coordinator*

Email: *grad.hg@mcgill.ca*

11.12.10.2 About Human Genetics

M.Sc. and Ph.D. Degrees in the Department of Human Genetics

The Department of Human Genetics offers a clinical master's program, M.Sc. in Genetic Counselling, as well as research training at both the M.Sc. and Ph.D. levels in Human Genetics. Both the M.Sc. and Ph.D. in Human Genetics research programs require the completion of a thesis, which is the major focus of the student's effort. A minimal amount of coursework is required, b

section 11.12.10.7: Master of Science (M.Sc.) Human Genetics (Thesis): Bioethics (45 credits)

McGill University offers specialized education in bioethics to graduate students in the Faculties of Medicine, Religious Studies, and Law, and the Department of Philosophy. The Master's degree Specialization in Bioethics is an interdisciplinary academic program that emphasizes both the conceptual and the practical aspects of bioethics.

section 11.12.10.6: Master of Science (M.Sc.) Human Genetics (Thesis): Bioinformatics (45 credits)

This program is currently not offered.

Students successfully completing the Bioinformatics option at the M.Sc. level will be fluent in the concepts, language, approaches, and limitations of the field. Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics Option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

Enrolment in the Bioinformatics option can only be approved after a student has been admitted into the Department. There is an agreement for the option that must be signed by the student, supervisor, and Department, and enrolment in the option is subject to space availability and other constraints that the Department cannot assess at the time of admission. For more information, please contact the Graduate Program Coordinator.

section 11.12.10.8: Master of Science (M.Sc.) Genetic Counselling (Non-Thesis) (48 credits)

The M.Sc. in Genetic Counselling program provides the academic foundation and clinical training required for the contemporary practice of genetic counselling. Genetic counsellors are health professionals who provide information and support to families who have members with birth defects or genetic disorders and to families who may be at risk for a variety of inherited conditions. Genetic counsellors investigate the problem present in the family, analyze 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 11.12.10.9: Doctor of Philosophy (Ph.D.) Human Genetics

The Department of Human Genetics provides a unified curriculum of study in genetics. Areas of specialization include: biochemical genetics, genetics of development, animal models of human diseases, cancer genetics, molecular pathology, gene therapy, genetic dissection of complex traits, genetics of infectious and inflammatory diseases, non-mendelian genetics, bioinformatics, behavioural genetics, neurogenetics, bioethics, and genomics. Many of our faculty hold cross-appointments in various departments (including: biochemistry, biology, cardiology, medicine, microbiology, immunology, neurology, pathology, pediatrics, 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

- Bachelor's or medical degree – minimum cumulative grade point average (CGPA) of 3.0 out of 4.0, or 3.2 out of 4.0 in the last two full-time academic years;
- Recent (within the past five years) university-level courses in molecular/cell biology, biochemistry, adv

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.**

11.12.10.4 Human Genetics Faculty

Chair

E.A. Shoubridge

Program Directors

J. Fitzpatrick – *M.Sc. in Genetic Counselling*

A. Naumova – *M.Sc. and Ph.D. in Human Genetics*

Emeritus Professors

F. Kaplan; B.A.(Col.), Ph.D.(McG.)

K. Morgan; Ph.D.(Mich.)

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*)

B. Brais; M.D.,C.M.(McG.) (*Neurology and Neurosurgery*)

W. Foulkes; B.Sc., MB.BS., Ph.D.(Lond.) (*Medicine*)

B. Knoppers; Ph.D.(Paris IV), Ad.E., O.C. (*Director, Centre of Genomics and Policy*)

M. Lathrop; B.Sc., M.Sc.(Alta.), Ph.D.(Wash.) (*Director, McGill University-Genome Quebec Innovation Centre*)

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.A. Shoubridge; B.Sc., M.Sc.(McG.), Ph.D.(Br. Col.) (*Neurogenetics*)

R. St-Arnaud; B.Sc.(Montr.), Ph.D.(Laval) (*Surgery*)

P. Tonin; B.Sc., M.Sc., Ph.D.(Tor.) (

Associate Professors

R. Nadon; B.A., M.A., Ph.D.(C’dia)

I. Ragoussis; Ph.D.(Tübingen)

L. Russell; B.A., M.D.(Ind.) (*Pediatrics*)

A. Ryan; Ph.D.(Qu.)

R. Sladek; B.A.Sc., M.D.(Tor.)

R. Slim; M.Sc.(Lebanese), M.Sc., Ph.D.(Paris VII)

Y. Y

Required Courses (6 credits)

HGEN 662	(3)	Laboratory Research Techniques
HGEN 692	(3)	Human Genetics

Complementary Courses (6 credits)

6 credits chosen from the departmental offerings below or from 500-, 600-, or 700-level courses offered in the Faculties of Medicine or Science:

HGEN 660	(3)	Genetics and Bioethics
HGEN 661	(3)	Population Genetics
HGEN 663	(3)	Beyond the Human Genome
HGEN 670	(3)	Advances in Human Genetics 1
HGEN 671	(3)	Advances in Human Genetics 2
HGEN 690	(3)	Inherited Cancer Syndromes
HGEN 691	(3)	Host Responses to Pathogens
HGEN 693	(3)	Using Bioinformatics Resources
HGEN 695	(3)	Psychiatric Genetics
HGEN 696	(3)	Advanced Readings in Genetics 1
HGEN 697	(3)	Advanced Readings in Genetics 2
HGEN 698	(3)	Advanced Readings in Genetics 3
HGEN 699	(3)	Advanced Readings in Genetics 4

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

11.12.10.6 Master of Science (M.Sc.) Human Genetics (Thesis): Bioinformatics (45 credits)

** This program is currently not offered. **

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.

11.12.10.7 Master of Science (M.Sc.) Human Genetics (Thesis): Bioethics (45 credits)

Thesis Courses (30 credits)

30 credits selected as follows:

HGEN 681	(12)	M.Sc. Thesis Research 2
HGEN 682	(12)	M.Sc. Thesis Research 3
HGEN 683	(6)	M.Sc. Thesis Research 4

Required Courses (12 credits)

12 credits from:

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum
HGEN 662	(3)	Laboratory Research Techniques
HGEN 692	(3)	Human Genetics

Complementary Courses (3 credits)

3 credits from the following:

BIOE 682	(3)	Medical Basis of Bioethics
CMPL 642	(3)	Law and Health Care
PHIL 643	(3)	Seminar: Medical Ethics
RELG 571	(3)	Ethics, Medicine and Religion

11.12.10.8 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

11.12.10.9 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 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.

11.12.10.10 Doctor of Philosophy (Ph.D.) Human Genetics: Bioinformatics

** This program is currently not offered. **

Thesis

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

Required Courses (6 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
HGEN 692	(3)	Human Genetics
HGEN 701	(0)	Ph.D. Comprehensive Examination

Complementar

section 11.12.11.5: Master of Science (M.Sc.) Medical Radiation Physics (Thesis) (52 credits)

The program comprises:

111211321 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.

Affiliate Members

K. Asiev, H. Bekerat, T. Connell, S. Darvasi, S. Davis, C. Furstoss, A. Gauvin, D. Guillet, G. Hegyi, L. Liang, P. Papaconstadopoulos, E. Poon, R. Richardson, R. Ruo, M. Serban, N. Tomic, P.G. Watson

Adjunct Professors

F. DeBlois; M.Sc., Ph.D.(McG.), F.C.C.P.M.

I. El Naqa; B.Sc., M.S.(Jordan), Ph.D.(Chic.), M.A.(Wash.), D.A.B.R.

C. Janicki; B.Sc., M.Sc., Ph.D.(Montr.)

B. Moftah; B.Sc.(Winn.), M.Sc., Ph.D.(Br. Col.)

G.B. Pike; B.Eng.(St. John's), M.Eng., Ph.D.(McG.)

A. Reader; B.Sc.(Kent), Ph.D.(Lond.)

A. Sarfehnia; B.Sc.(Br.Col.), M.Sc., Ph.D.(McG.)

E. Soisson; M.Sc., Ph.D.(Wisc.)

11.12.11.5 Master of Science (M.Sc.) Medical Radiation Physics (Thesis) (52 credits)

The M.Sc. program in Medical Radiation Physics provides candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background and enables candidates to undergo further training through a clinical residency program or to further advanced graduate studies in medical physics through a Ph.D. degree. Graduates from the program typically find employment in clinical settings, academia, industry, or governmental research and regulatory agencies. The program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP).

Thesis Courses (24 credits)

MDPH 690	(24)	M.Sc. Thesis Research

Required Courses (28 credits)

MDPH 601	(3)	Radiation Physics
MDPH 602	(3)	Radiotherapy Physics
MDPH 603	(2)	Laboratory Radiotherapy Physics
MDPH 607	(3)	Medical Imaging
MDPH 608	(2)	Laboratory - Diagnostic Radiology and Nuclear Medicine
MDPH 609	(2)	Radiation Biology
MDPH 612	(3)	Instrumentation and Computation in Medical Physics
MDPH 613	(2)	Health Physics
MDPH 614	(3)	Physics of Diagnostic Radiology
MDPH 615	(2)	Physics of Nuclear Medicine
MDPH 618	(3)	Anatomy and Physiology for Medical Physics

11.12.11.6 Graduate Diploma (Gr. Dip.) Medical Radiation Physics (31 credits)

The Graduate Diploma in Medical Radiation Physics is intended to provide candidates holding a graduate degree in a related field with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background. The graduate diploma program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP) only for students holding a Ph.D. degree.

Required Courses (31 credits)

MDPH 601	(3)	Radiation Physics
MDPH 602	(3)	Radiotherapy Physics
MDPH 603	(2)	Laboratory Radiotherapy Physics

MDPH 607	(3)	Medical Imaging
MDPH 608	(2)	Laboratory - Diagnostic Radiology and Nuclear Medicine
MDPH 609	(2)	Radiation Biology
MDPH 612	(3)	Instrumentation and Computation in Medical Physics
MDPH 613	(2)	Health Physics
MDPH 614	(3)	Physics of Diagnostic Radiology
MDPH 615	(2)	Physics of Nuclear Medicine
MDPH 618	(3)	Anatomy and Physiology for Medical Physics
PHIL 643	(3)	Seminar: Medical Ethics

11.12.12 Medicine, Experimental

11.12.12.1 Location

Division of Experimental Medicine
Department of Medicine
1001 Decarie Boulevard
Montreal QC H4A 3J1
Canada
Telephone: 514-934-1934, ext. 34699 or 34700
Email: *experimental.medicine@mcgill.ca*
Website: *www.mcgill.ca/expmed*

11.12.12.2 About Experimental Medicine

Experimental Medicine is a Division of the Department of Medicine charged with the task of providing graduate education in the Department, and enabling professors located in the research institutes of the McGill teaching hospitals and other centres to supervise graduate students. The Division offers various programs, each of which has different training objectives (see below). The internationally-recognized high-quality training our graduates receive is in essence what distinguishes graduates of our programs from the graduates of comparable programs in peer institutions.

section 11.12.12.5: Master of Science (M.Sc.) Experimental Medicine (Thesis) (45 credits)

Applicants for the M.Sc. in Experimental Medicine must hold either an M.D. degree, a B.Sc. degree, or the equivalent. The graduate training offered is wide-ranging and addresses experimental aspects of medicine in such diverse areas as:

- endocrinology;
- hematology;
- cardiology;
- oncology;
- gastroenterology;
- genetics;
- infectious diseases.

This thesis program may lead to careers in industry, or serve as a stepping stone to further graduate studies.

section 11.12.12.6: Master of Science (M.Sc.) Experimental Medicine (Thesis): Bioethics (45 credits)

Applicants for the M.Sc. Bioethics Option program must hold an M.D.; a Nursing degree; a Physical and Occupational Therapy degree; and/or any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis. The objectives of this research-stream program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care, and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies.

The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, Bioethics courses (6-credit minimum) offered by the base faculty or department, and any graduate course required or accepted by a base faculty for the granting of a master's degree, for a total of 21 credits. A minimum of 45 credits is required including the thesis. The research culminates in the preparation of a thesis.

section 11.12.12.7: Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits)

Applicants for the M.Sc. Environment Option must meet the requirements for the M.Sc. in Experimental Medicine as well as those set out by the McGill School of Environment (MSE) for their graduate option. Acceptance into the option will be based on a student's academic experience and performance; availability of an MSE-accredited supervisor or co-supervisor; the proposed research; and plans for funding as articulated by the supervisor(s). The Environment Option is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues, and who wish to benefit from interactions that will occur as they are brought into contact with students from a wide range of disciplines through structured courses, formal seminars, and informal discussions and networking. The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments.

section 11.12.12.8: Doctor of Philosophy (Ph.D.) Experimental Medicine

Applicants for the Ph.D. in Experimental Medicine must normally hold an M.Sc. degree. The one exception is the possibility of direct entry offered to candidates having demonstrated academic excellence, i.e., a CGPA of 3.5 or more out of a possible 4.0 throughout their undergraduate studies. The training is in the conduct of research in a wide range of medical 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 defence of a thesis. yerm(isie cf iy the)Tj1

araduCeas ficaeicinGrf En45 credits)

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.

Application Pr

Professors

M. Alaoui-Jamali; D.V.M.(Rabat, Morocco), Ph.D.(Paris V)

S. Ali; B.Sc.(C'dia), Ph.D.(McG.)

C. Autexier; B.Sc.(C'dia), Ph.D.(McG.)

A. Bateman; B.Sc., Ph.D.(Lond.)

G. Batist; B.Sc.(Col.), M.D.,C.M.(McG.), F.R.C.P.(C)

O. Beauchet; B.Sc.(Sainte-Etienne), M.Sc.(Claude Bernard), Ph.D.(Jean Monnet)

M. Behr; B.Sc.(Tor.), M.D.(Qu.), M.Sc.(McG.)

H. Bennett; B.A.(York, UK), Ph.D.(Brunel)

V. Blank; B.Sc., M.Sc.(Konstanz), Ph.D.(Inst. Pasteur)

J. Bourbeau; M.D.(Laval), M.Sc.(McG.), F.R.C.P.(C)

A. Cybulsky; M.D.(Tor.), F.R.C.P.(C)

G. Di Battista; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

A. Fuks; B.Sc., M.D.,C.M.(McG.)

A. Gatignol; M.Sc., Ph.D.(Paul Sabatier)

J. Genest Jr.; M.D.,C.M.(McG.), F.R.C.P.(C)

V. Giguere; B.Sc., Ph.D.(Laval)

M. Goldberg; B.Sc., M.Sc., Ph.D.(McG.)

D. Goltzman; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

S.A. Grover; B.A.(Roch.), M.D.,C.M.(McG.), M.P.A.(Harv.), F.R.C.P.(C)

L.J. Hoffer; B.Sc., M.D.,C.M.(McG.), Ph.D.(MIT)

S. Hussain; M.D.(Baghdad), Ph.D.(McG.)

A.C. Karaplis; B.Sc., M.D., Ph.D.(McG.)

R. Kremer; M.D., Ph.D.(Paris VI)

A.-M. Lauzon; B.Sc., M.Sc., Ph.D.(McG.)

C. Liang; B.Sc., Ph.D.(Nankai)

J.-J. Lebrun; B.Sc., M.Sc.(Rennes), Ph.D.(Paris V)

M.S. Ludwig; M.D.(Manit.), F.R.C.P.(C)

S. Magder; M.D.(Tor.), F.R.C.P.(C)

D. Malo; D.V.M., M.Sc.(Montr.), Ph.D.(McG.)

A. J. Marelli; B.Sc.(McG.), M.D.(Montr.)

J. Martin; B.Sc., M.B., B.Ch., M.D.(Cork), F.R.C.P.(C)

W.H. Miller; A.B.(Princ.), Ph.D.(Rock.), M.D.(Cornell)

A. Mouland; B.A., B.Sc., Ph.D.(McG.)

W.J. Muller; B.Sc., Ph.D.(McG.)

A. Nepveu; B.Sc., M.Sc.(Montr.), Ph.D.(Sher.)

T. Nilsson; B.Sc., Ph.D.(Uppsala)

M. Olivier; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

L. Panasci; B.Sc., M.D.(G’town)

K. Pantopoulos; B.Sc., Ph.D.(Aristotelian, Greece)

M. Park; B.Sc., Ph.D.(Glas.)

B.J. Petrof; M.D.(Laval)

L. Pilote; M.D.,C.M.(McG.), M.Sc.(Harv.), Ph.D.(Calif.)

Professors

M.N. Pollak; M.D.,C.M.(McG.), F.R.C.P.(C)

P. Ponka; M.D., Ph.D.(Charles Uni

Associate Professors

T. Jagoe; B.A., M.D.(Camb.), Ph.D.(Newcastle, UK), F.R.C.P.(C)

B. Jean-Claude; B.Sc., M.Sc.(Moncton), Ph.D.(McG.)

N. Johnson; B.Sc.(C'dia), M.D.(Ott.), Ph.D.(Br. Col.), F.R.C.P.(C)

M. Kokoeva; B.Sc.(Lomonosov Moscow), Ph.D.(Acad. of Sci., Moscow)

A. Kristof; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

P. Laneuville; B.Sc.(McM.), M.D.(Ott.), F.R.C.P.(C)

S. Laporte; B.Sc., M.Sc., Ph.D.(Sher.)

L. Larose; B.Sc., Ph.D.(Montr.)

S. Lehoux; B.Sc.(Bishop's), Ph.D.(Sher.)

S. Lemay; M.D.(Montr.), F.R.C.P.(C)

R. Lin; B.Sc., B.Sc.(Xiamen), M.Sc.(Peking Union), Ph.D.(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)

S. Morin; B.Sc., M.D.(Laval), M.Sc.(McG.)

M. Murshed; M.Sc.(Brussels), Ph.D.(Cologne)

M. Ndao; B.Sc., D.V.M.(Senegal), M.Sc., Ph.D.(Belgium)

D. Nguyen; M.D.,C.M.(McG.), F.R.C.P.(C)

A.C. Peterson; B.Sc.(Vic., BC), Ph.D.(Br. Col.)

S. Qureshi; B.Sc., M.D.(Alta.), F.R.C.P.(C)

E. Rahme; B.Sc.(Lebanese), Ph.D.(Penn. St.), M.Sc., Ph.D.(McG.)

J. Rauch; B.Sc., Ph.D.(McG.)

C. Rocheleau; B.A.(Assum. Coll.), Ph.D.(Mass.)

S. Rousseau; B.Sc., M.Sc., Ph.D.(Laval)

M. Saleh; B.Sc., M.Sc.(Beirut), Ph.D.(McG.)

G. Sebastiani; M.D.(Padova)

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

* 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.

11.12.12.8 Doctor of Philosophy (Ph.D.) Experimental Medicine

The overall objective of this program is to train students in the in-depth analysis of fundamental, translational and/or clinical research. Students perform studies at diverse levels, from molecular, cellular, and tissue to whole animal, human, and population in order to elucidate mechanisms behind human diseases, leading to drug discovery. Students are trained to become research leaders in both academic and industrial 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

EXMD 701D1	(0)	Comprehensive Oral Examination
EXMD 701D2	(0)	Comprehensive Oral Examination

Complementary Courses (12 or 18 Credits)

12 credits, at the 500 level or higher, are required for students admitted to Ph.D. 2, i.e. students entering the program with a prior Master's degree.

18 credits, at the 500 level or higher, are required for students admitted to Ph.D. 1, i.e. students entering the program with only a B.Sc. or M.D. degree. Students that fast track from the masters level should take a total of 18 credits including previous courses taken at the Masters Level in a related-field.

Course choices should be made in consultation with research supervisor(s). Courses may be taken outside the department at the 500 level or higher in medical and allied sciences *.

* Note that some seminar, current topics and readings, and conference courses may not count towards your degree. Thus, students must obtain prior approval from the Division’s Student Affairs Coordinator for courses at the 500 level or higher from other Allied Health Sciences departments.

11.12.12.9 Doctor of Philosophy (Ph.D.) Experimental Medicine: Environment

Thesis

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

Required Courses (6 credits)

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.

11.12.12.10 Graduate Diploma (Gr. Dip.) Clinical Research (30 credits)

The objectives of this program are to give students exposure to both theoretical and practical issues relevant to the conception and conduct of a clinical research study, and to put these principles into practice by participating in an ongoing clinical trial. The training provided qualifies students to manage and design clinical research studies in both academic and industrial settings.

Required Courses (24 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
EXMD 627	(18)	Practicum in Clinical Research

Complementary Courses (6 credits)

Six credits at the 500 level or higher chosen from: Experimental Medicine (EXMD), Pharmacology and Therapeutics (PHAR), Epidemiology and Biostatistics (EPIB). With prior approval from the Division's Student Affairs Coordinator, courses at the 500 level or higher

We have developed unique and rigorous research programs for **M.Sc.** and **Ph.D.** students that advance academic excellence in family medicine and primary health care through patient-oriented, community-based research with innovative methodologies and participatory approaches.

section 11.12.13.5: Master of Science (M.Sc.) Family Medicine (Thesis) (45 credits)

The M.Sc. in Family Medicine is a **research-oriented thesis-based graduate program** in family medicine. The objective is to increase the skills of those interested in carrying out research pertinent to the practice of family medicine.

As many relevant research questions cross conventional boundaries of disciplines and research traditions, we incorporate an **interdisciplinary approach** with an emphasis on **participatory research** and **community engagement**.

This program provides training in epidemiology and statistics as well as in qualitative, quantitative and mixed methods. Students are also oriented for knowledge synthesis and participatory research approaches.

An emphasis is placed on the relevance of the thesis research to family practice and primary health care. Close links are maintained with the main family medicine clinical sites located around Montreal and Quebec.

section 11.12.13.6: Master of Science (M.Sc.) Family Medicine (Thesis): Bioethics (45 credits)

The objectives of this program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies. A minimum of 45 credits is required including the thesis. The research culminates in the preparation of a thesis.

section 11.12.13.7: Master of Science (M.Sc.) Family Medicine (Thesis): Medical Education (45 credits)

This program will have very close ties to the *Family Medicine Educational Research Group* (FMER), which is the corollary of the educational innovations in teaching and research conceived and established in the McGill Department of Family Medicine since 2005. The FMER group's ultimate goal is to advance knowledge to:

1. constantly inform family medicine curricula innovations and continuing professional development to better family physicians' clinical practice;
2. significantly contribute to the development of the family medicine education field of inquiry;
3. rigorously develop and inform medical education policy.

This research agenda of FMER is articulated into four interrelated streams:

1. family physician's professional identity formation;
2. information use and technology in the learning episodes of practicing ph

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). F

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	September 15	February 1	February 1	February 1
Winter Term:	Ph.D. applicants only	June 1	October 1	October 1
Summer Term:	N/A	N/A	N/A	N/A

All supporting documents must be received by February 1 for the Fall semester. Candidates who are interested in our MSc programs are only allowed to apply for the Fall semester. Candidates who are interested in our Ph.D. in Family Medicine and Primary Care program may apply in either the Fall or Winter semesters.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

11.12.13.4 Medicine, Family Faculty

Chair

Howard Bergman

Graduate Program Director

Gillian Bartlett

Professors

Neil Andersson; M.D., M.Sc., M.Phil.(Lond.), Ph.D.(City, UK), M.F.PbTjtyrlls0.4.l1/F1 8.1 Tf1 0 0 194 461.607C;8 445.887 lhNRj1 0 0 1 29 70F12 Tm(ent . 8.1 Tf1

Assistant Professors

Samira Rahimi, Eng.(Tabriz), Ph.D.(Laval), B.Eng.(Cornell)

Kathleen Rice, M.A.(Concordia), Ph.D.(Tor.), MA.(Concordia)

Tibor Schuster; B.Sc., M.Sc.(Ludwig Maximilians), Ph.D.(TU Berlin)

Machelle Wilchesky; B.A., M.A.(Qu.), Ph.D.(McG.)

Associate Members

Sara Ahmed (Physical and Occupational Therapy)

Olivier Beauchet (Medicine)

David Buckeridge (Epidemiology)

Robin Cohen (Palliative Care)

Carolyn Ells (Bioethics)

Jennifer Fishman (Bioethics)

Matthias Friedrich (Medicine)

Richard Hovey (Dentistry)

Matthew Hunt (Physical and Occupational Therapy)

Patricia Li (Pediatrics)

Francesca Luconi (Continuing Professional Development – Faculty of Medicine)

Antonia Maioni (Political Science)

Melissa Park (Physical and Occupational Therapy)

Erin Strumpf (Epidemiology and Economics)

Daniel Weinstock (Institute of Health and Social Policy)

Meredith Young (Centre of Medical Education)

Adjunct Professors

Tracie Barnett (Institut Armand Frappier)

Julie Bruneau (Montr.)

Yves Couturier (Sher.)

Catherine Hudon (Sher.)

Amalia Issa (Houston)

Janusz Kaczorowski (Montr.)

Edeltraut Kroger (CEVQ)

Susan Law (Tor.)

Marie-Thérèse Lussier (Montr.)

Emily Marshall (Dal.)

Vivian Ramsden (Sask.)

Christian Rochefort (Sher.)

Jon Salsberg (Limerick)

Marie Claude Tremblay (Laval)

11.12.13.5 Master of Science (M.Sc.) Family Medicine (Thesis) (45 credits)

Thesis Courses (24 credits)

FMED 697	(12)	Master's Thesis Research 1

FMED 698	(12)	Master's Thesis Research 2

Required Courses (13 credits)

FMED 505	(3)	Basic Analysis for Health Data
FMED 509	(3)	Foundations of Epidemiology in Family Medicine
FMED 603	(1)	Foundations of Participatory Research
FMED 614	(2)	Foundations of Mixed Methods Research
FMED 616	(1)	Applied Literature Reviews
FMED 625	(3)	Qualitative Health Research

Elective Courses (8 credits)

8 credits at the 500 level or higher chosen by the student and the Department in consultation with the student's thesis supervisor(s) of which 3 credits may be chosen from another department at McGill.

FMED 504D1	(.5)	Family Medicine Research Seminars
FMED 504D2	(.5)	Family Medicine Research Seminars
FMED 511	(1)	Introduction to Art in Healthcare: Making Art Accessible
FMED 525	(3)	Foundations of Translational Science
FMED 601	(3)	Advanced Topics in Family Medicine
FMED 604	(3)	Advanced Participatory Research in Health
FMED 605	(1)	Canadian Healthcare Policy and Decision-Making
FMED 606	(1)	Operational Issues in Survey Methods in Primary Care
FMED 607	(1)	Intro to Discourse Analysis & Interpretive Health Research
FMED 608	(1)	Advanced Mixed Methods Seminar in Health Research
FMED 610	(1)	Foundations of Family Medicine
FMED 611	(3)	Healthcare Systems, Policy and Performance
FMED 612	(1)	Evaluation Research and Implementation Science
FMED 615	(1)	Applied Knowledge Translation and Exchange in Health
FMED 618	(1)	Topics in Pharmacoeconomics, Drug Safety and Policy
FMED 619	(3)	Program Management in Global Health & Primary Health Care
FMED 621	(1)	Participatory Health Systems for Safe Birth
FMED 690	(3)	Advanced Ethnography: Context, Complexity and Coordination

11.12.13.6 Master of Science (M.Sc.) Family Medicine (Thesis): Bioethics (45 credits)

The M.Sc. in Family Medicine; Bioethics is a thesis graduate program option designed to provide graduate training to those interested in studying empirical research methods and bioethics specialization.

Required Courses (31 credits)

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum
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

FMED 603	(1)	Foundations of Participatory Research

Complementary Course (3 credits)

3 credits from the following:

FMED 505	(3)	Basic Analysis for Health Data
FMED 625	(3)	Qualitative Health Research

Elective Courses (11 credits)

11 credits, at the 500 level or higher, of coursework may be chosen from inside or outside the Department in consultation with the student's academic adviser or supervisor.

11.12.13.7 Master of Science (M.Sc.) Family Medicine (Thesis): Medical Education (45 credits)

The MSc in Family Medicine; Medical Education option is a thesis option graduate program designed to provide research training to family physicians, and exceptionally other health professionals and other students interested in family medicine education research. This MSc Option has very close ties to the Family Medicine Educational Research Group (FMER), which integrates family medicine researchers deeply committed to the development of the family medicine education field of inquiry. The FMER's ultimate goal is to advance knowledge to: (1) constantly inform family medicine curricula innovations and continuing professional development to better family physicians' clinical practice, (2) significantly contribute to the development of the family medicine education field of inquiry, and (3) rigorously develop and inform medical education policy. This research agenda of FMER is articulated into four interrelated09.262 Tm(a

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

PhD Comprehensive Exam

PhD students are expected to demonstrate proficiency in the following topics: basic statistics, epidemiology, qualitative and mixed methods, literature synthesis, knowledge translation and participatory research approaches. If a PhD candidate does not have prior training in any of these areas and believes that he or she cannot answer questions on these topics during the comprehensive exam, additional courses will be required for the PhD student.

FMED 701	(0)	PhD Comprehensive Examination

Required Courses (9 credits)

FMED 601	(3)	Advanced Topics in Family Medicine
FMED 604	(3)	Advanced Participatory Research in Health
FMED 702*	(1)	Advanced Doctoral Primary Care Research Seminars

* Note: this slot course must be taken three times (3 cr.)

Elective Course (3 credits)

3 credits in advanced research methods, at the 600 level or higher. May be chosen from outside the Department, in consultation with the student's academic adviser or supervisor.

11.12.14 Microbiology and Immunology

11.12.14.1 Location

Department of Microbiology and Immunology
Duff Medical Building, Room 511
3775 University Street
Montreal QC H3A 2B4
Canada
Telephone: 514-398-3061
Fax: 514-398-7052
Email: *grad.microimm@mcgill.ca*
Website: *www.mcgill.ca/microimm*

11.12.14.2 About Microbiology and Immunology

The Department offers graduate programs leading to the degrees of **M.Sc.** and **Ph.D.**. Each program is tailored to fit the needs and backgrounds of individual students. The graduate program is designed to offer students state-of-the-art training, concentrating on four key areas of research:

- cellular and molecular immunology;
- microbial physiology and genetics;
- molecular biology of viruses;
- medical microbiology.

Basic research discoveries in microbiology may lead to improved drug design and vaccine development to treat and prevent diseases. The Department has many notable facilities and resources, including a cell sorter, ultra centrifuges, confocal microscope, real-time PCR facilities, cryostat for immunocytochemistry, and facilities for radio-isotope studies and infectious diseases. We foster close ties with McGill's teaching hospitals and research centres to promote multidisciplinary research.

section 11.12.14.5: Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

The primary goal of this program is to provide students with unique opportunities to learn experimental designs and fundamental research techniques, and objectively synthesize information from scientific literature. These tools enable the students to focus on major research topics offered by the Department: molecular microbiology, mycology, microbial physiology, virology, genetics, immunology, drug design, and aspects of host-parasite relationships. Each M.Sc. student chooses their preferred major research area and research supervisor. Following an interview, the student is presented with a research topic and offered a studentship (all on t

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section 11.12.14.5: Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

Most of our students, after one year, are proficient researchers, and some first authors of a research publication. M.Sc. students may fast-track to the Ph.D. program after three terms of residency. The remaining students advance their microbiology background by opting to enter into medicine, epidemiology, biotechnology, or pharmaceutical disciplines.

section 11.12.14.6: Doctor of Philosophy (Ph.D.) Microbiology and Immunology

The primary goal of the Ph.D. program is to create a self-propelled researcher, proficient in experimental designs and advanced methodologies applicable to the varied and rapidly changing disciplines in microbiology and immunology. Close research supervision and bi-weekly laboratory sessions impart the requisite research discipline and objective assessment of acquired or published research data.

A Ph.D. student, if promoted from our M.Sc. program, without submitting the thesis, is required to register for one additional graduate seminar and one additional reading and conference course, but the bulk of his/her time is devoted to research. Other requirements include a yearly presentation of the accumulated research data to the Ph.D. supervisory committee, successfully clearing the Ph.D. comprehensive examination, two years after registration into the Ph.D. program, and finally submission of a thesis. The research theme must be original, and the acquired data and hypothesis must be defended orally by the student. Each student receives a stipend for the entire duration and a minimum six-semester residency is required for the completion of the program.

11.12.14.3 Microbiology and Immunology Admission Requirements and Application Procedures

11.12.14.3.1 Admission Requirements

Master's

Candidates are required to hold a B.Sc. degree in microbiology and immunology, biology, biochemistry, or another related discipline; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. The minimum cumulative grade point average (CGPA) for acceptance into the program is 3.2 out of 4.0.

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the *TOEFL* (Test of English as a Foreign Language) or *IELTS* (International English Language Testing Systems) Office. An institutional version of the TOEFL is not acceptable. Applications will not be considered if a TOEFL or IELTS test result is not available.

- TOEFL Internet-Based Test (iBT): a minimum overall score of 86 (no less than 20 in each of the four components)
- TOEFL Paper-Based Test (PBT): a minimum score of 567
- IELTS: a minimum overall band score of 6.5

The TOEFL Institution Code for McGill University is 0935.

Ph.D.

Students who have satisfactorily completed an M.Sc. degree in microbiology and immunology, a biological science, or biochemistry, or highly qualified students enrolled in the departmental M.Sc. program, may be accepted into the Ph.D. program provided they meet its standards.

11.12.14.3.2 Application Procedures

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

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

All applicants must approach academic staff members directly during or before the application process since no applicants are accepted without a supervisor.

11.12.14.3.2.1 Additional Requirements

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

- *Supervisor Confirmation Form*

11.12.14.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	April 22	June 13	June 13

	Application Opening Dates		Application Deadlines	
Winter Term:	Feb. 15	Sept. 1	Nov. 1	Nov. 1
Summer Term:	May 15	Jan. 6	March 25	March 25

Online applications and all required documents must be submitted prior to the application deadline.

11.12.14.4 Microbiology and Immunology Faculty

Interim Chair

G. Matlashewski

Emeritus Professors

N. Acheson, M. Baines, J.W. Coulton

Professors

J. Archambault; Ph.D.(Tor.)

A. Berghuis; M.Sc.(Rijks Univ. Groningen), Ph.D.(Br. Col.)

G.J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ohio)

R.A. Murgita; B.Sc.(Maine), M.S.(Vermont), Ph.D.(McG.)

M. Olivier; B.Sc.(Montr.), Ph.D.(McG.)

C. Piccirillo; B.Sc., Ph.D.(McG.)

D. Sheppard; M.D.(Tor.)

M. Stevenson; M.Sc., Ph.D.(Catholic Univ. of Amer.)

Associate Professors

D.J. Briedis; B.A., M.D.(Johns Hop.)

B. Cousineau; B.Sc., M.Sc., Ph.D.(Montr.)

S. Fournier; Ph.D.(Montr.)

J. Fritz; Ph.D.(Vienna)

S. Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)

G.T. Marczynski; B.Sc., Ph.D.(Ill.)

Assistant Professors

I. King; B.Sc.(Ohio St.), M.Sc.(Pitt. St.), Ph.D.(Roch.)

C. Krawczyk; Ph.D.(Tor.) ; (*Currently on leave.*)

C. Maurice; M.S., Ph.D.(Montpellier II)

M. Richer; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(Br. Col.)

S. Sagan; B.Sc.(McG.), Ph.D.(Ott.)

Associate Members

Epidemiology and Infectious Diseases: M. Behr, A. Dascal, V. Loo 358.84 Tm(.))Tj1 0 0 1 70.Eeq .Kl2 374.56 Tm(ln2 Tm(Associ0.9216 0.8431 rg0.9804 0.9216 0.84

Associate Members

Immunology and Virology: M-A. Jenabian

Adjunct Professors

A. Bar-Or

E. Cohen

A. Descoteaux

J.M. Di Noia

E. Emani

A. Finzi

N. Grandvaux

G. Kukolj

P. Lau

S. Lesage

S.L. Liu

J. Madrenas

R. Moutih

C. Paradis-Bleau

A. Petronela

K. Pike

W-K. Suh

S. Tran

11.12.14.5 Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

Thesis Courses (33 credits)

MIMM 697	(11)	Master's Research 1
MIMM 698	(11)	Master's Research 2
MIMM 699	(11)	Master's Research 3

Required Courses (6 credits)

MIMM 611	(3)	Graduate Seminars 1
MIMM 612	(3)	Graduate Seminars 2

Complementary Courses (6 credits)

Minimum 6 credits from:

MIMM 607	(3)	Biochemical Pathology
MIMM 616	(3)	Reading and Conference 1
MIMM 617*	(3)	Reading and Conference 2
MIMM 618*	(3)	Reading and Conference 3
MIMM 619*	(3)	Reading and Conference 4
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology

Any life sciences-related 500-level or above course (3 credits). Department approval required.

* Not offered in every academic year.

11.12.14.6 Doctor of Philosophy (Ph.D.) Microbiology and Immunology

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous w

1. Students must select an Advisory Committee, in conjunction with their thesis supervisor. This committee will consist of the thesis supervisor and two (maximum three) other individuals who will participate in discussions with students about their research program.
2. All Ph.D. students are required to complete a candidacy examination before the end of Ph.D. 3. The exam serves to evaluate the students' ability to perform original scholarship and to demonstrate their suitability for a Ph.D. degree. An M.Sc. student may be eligible to transfer to the Ph.D. program without submitting a master's thesis by taking the *Transfer Seminar/Candidacy Exam*. This exam is allowed if the master's CGPA is 3.5 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 3.5 CGPA in their M.Sc. coursework while in the IPN, must submit a master's thesis and apply for the Ph.D. level afterwards.
3. Students are required to submit a written thesis proposal (18 months after the start of the program for M.Sc. students, and at least one month prior to the candidacy exam for Ph.D. students). This document must state the research question, present the hypothesis being tested, review the relevant literature,

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

11121532.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement
- Letters of Recommendation (2)

Consult the Integrated Program in Neuroscience's *website* for further details

11121533 Application Dates and Deadlines

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

	Application Opening Dates	**Application Deadlines**		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 30	June 1	June 1
Winter Term:	Feb. 15	Sept. 10	Nov. 10	Nov. 10
Summer Term:	N/A	N/A	N/A	N/A

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Professors

C. Baker; Ph.D.(Calif.-San Diego) (*Dept. of Ophthalmology*)

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*)

Professors

M. Jones-Gotman; B.A.(Calif.), M.A., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

T. Kennedy; B.Sc.(McM.), Ph.D.(Col.) (*Dept. of Neurology and Neurosurgery*)

B. Kieffer; Ph.D.(Strasbourg) (*Dept. of Psychiatry*)

F. Kingdom; Ph.D.(Reading) (*Dept. of Ophthalmology*)

P. Lachapelle; Ph.D.(Montr.) (*Dept. of Ophthalmology*)

N. Lamarche; Ph.D.(Montr.) (*Dept. of Anatomy and Cell Biology*)

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Professors

W. Sossin; B.S.(MIT), Ph.D.(Stan.) (*Dept. of Neurology and Neurosurgery*)

L. Srivastava; Ph.D.(J. Nehru) (*Dept. of Psychiatry*)

S. Stifani; D.Chem.(Rome), Ph.D.(Alta.) (*Dept. of Neurology and Neurosurgery*)

M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia) (*Dept. of Psychology*)

G. Tannenbaum; M.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurg*

Associate Professors

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*)

A. McKinney; Ph.D.(Ulster) (*Dept. of Pharmacology and Therapeutics*)

N. Mechawar; Ph.D.(Montr.) (*Dept. of Psychiatry*)

J. Mendola; Ph.D.(MIT) (*Dept. of Ophthalmology*)

G. Mitsis; Dipl. (Nat. Tech., Athens), M.Sc., Ph.D. (USC) (*Dept. of Bioengineering*)

K. Murai; Ph.D.(Calif.) (*Dept. of Neurology and Neurosurgery*)

K. Nader; B.Sc., Ph.D.(Tor.) (*Dept. of Psychology*)

J. Nalbantoglu; B.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

C. Pack; B.Sc.(Tufts), Ph.D.(Boston) (*Dept. of Neurology and Neurosurgery*)

H. Paudel; Ph.D.(Okla.), M.Sc.(Nepal) (*Dept. of Neurology and Neurosurgery*)

A. Peterson; B.Sc.(Vic., BC), Ph.D.(Br. Col.) (*Dept. of Neurology and Neurosurgery*)

K. Petrecca; B.Sc., M.D., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

M. Pompeiano; M.D.(Pisa), Ph.D.(Scuola Sup. Pisa) (*Dept. of Psychology*)

R. Postuma; M.D. (Manit.), M.Sc. (McG.) (*Dept. of Neurology and Neurosurgery*)

D. Ragsdale; B.S.(Ill.), Ph.D.(Calif.) (*Dept. of Neurology and Neurosurgery*)

N. Rajah; Ph.D.(Tor.) (*Dept. of Psychiatry*)

Y. Rao; B.Sc.(Sichuan), Ph.D.(Tor.) (*Dept. of Neurology and Neurosurgery*)

A. Raz; M.Sc., Ph.D.(Hebrew) (*Dept. of Psychiatry*)

A. Reader; Ph.D.(King's Coll., Lond.) (*Dept. of Neurology and Neurosurgery*)

J. Renaud; M.D., M.Sc. (Montr.), F.R.C.P.(C) (*Dept. of Psychiatry*)

J. Rochford; Ph.D.(C’dia) (*Dept. of Psychiatry*)

B. Rosenblatt; B.Sc., M.D.,C.h.D.(C’

Assistant Professors

B. Bedell; B.S.(Leigh), M.D.,C.M.(McG.), Ph.D.(Texas) (*Dept. of Neurology and Neurosurgery*)

M. Berlim; M.D., M.Sc.(UFRGS) (*Dept. of Psychiatry*)

B. Bernhardt; Ph.D. (McG.) (*Department of Neurology and Neurosurgery*)

S. Blain-Moraes; B.Sc., Ph.D. (Tor.) (*School of Communication Sciences and Disorders*)

M-H. Boudrias; B.Sc.(Montr.), Ph.D.(KUMC) (*School of Physical and Occupational Therapy*)

M. Brandon; B.A.(Conn.), Ph.D.(Boston) (*Dept. of Psychiatry*)

J.P. Britt; Ph.D.(Chic.) (*Dept. of Psychology*)

M. Brossard-Racine; B.Sc. (Montr.), Ph.D. (McG.) (*School of Communication Sciences and Disorders*)

M. Chakravarty; B.Eng.(Wat.), M.Eng., Ph.D.(McG.) (*Dept. of Psychiatry*)

B. Chen; Ph.D.(SUNY) (*Dept. of Neurology and Neurosurgery*)

E. de Villers-Sidani; M.D.(McG.)

R. Diaz; B.Sc., M.D., Ph.D. (Tor.), F.R.C.S.(C) (*Dept. of Neurology and Neurosurgery*)

S. Ducharme; M.D. (Montr.), M.Sc. (McG.), F.R.C.P.(C) (*Depts. of Psychiatry, Neurology and Neurosurgery*)

M. Elsabbagh; B.Sc. (McG.), Ph.D. (UQAM) (*Dept. of Neurology and Neurosurgery*)

R. Farivar; B.Sc.(Vic., BC), Ph.D.(McG.) (*Dept. of Ophthalmology*)

C. Ferland-Legault; Ph.D. (Montr.) (*Dept. of Anesthesia*)

Z. Gan-Or; M.D., Ph.D. (Tel Aviv) (*Dept. of Neurology and Neurosurgery*)

C. Grova; Ph.D.(Rennes) (*Depts. of Biomedical Engineering & Neurology and Neurosurgery*)

P. Haghighi; Ph.D.(McG.) (*Dept. of Physiology*)

L. Healy; B.Sc. (Univ. Coll. Cork), Ph.D. (Trinity Coll. Dublin) (*Dept. of Neurology and Neurosurgery*)

A. Hendricks; Ph.D.(Mich.) (*Dept. of Bioengineering*)

M. Hendricks; B.A.(Bowdoin), Ph.D. (Sing.) (*Dept. of Biology*)

P. Huot; M.D, M.Sc. (Laval), Ph.D. (Tor.) (*AiecA864 Tm(.pt. of Neur)Tj1 0 0 1 2315877 534 Tm(or)*

Assistant Professors

T. Ohyama; Ph.D. (Baylor) (*Dept. of Biology*)

C. Paquette; B.Sc., M.Sc. (Laval), Ph.D. (McG.) (*Dept. of Kinesiology and Physical Education*)

P. Pelufo Silveira; M.D., M.Sc., Ph.D. (UFRGS) (*Dept. of Psychiatry*)

A. Peyrache; M.Sc. (ESPCI), M.Sc., Ph.D. (Paris VI) (*Dept. of Neurology and Neurosurgery*)

M. Prager-Khoutorsky; Ph.D. (Hebrew) (*Dept. of Physiology*)

M. Roig; M.Sc. (Nott.), Ph.D. (Br. Col.) (*Dept. of Physical and Occupational Therapy*)

P. Rosa-Neto; M.D., M.Sc.(UFRGS), Ph.D.(Aarhus) (*Depts. of Neurology and Neurosurgery, Psychiatry*)

D. Rudko; M.Sc. (Vic. BC), PhD (Western) (*Depts. of Biomedical Engineering, Neurology and Neurosurgery*)

J. Shah; M.D. (Tor.), F.R.C.P.(C) (*Dept. of Psychiatry*)

R. Sharif; Ph.D.(McG.) (*Dept. of Physiology*)

M. Sharp; M.D. (McG.) (*Department of Neurology and Neurosurgery*)

D. Sinclair; B.Sc., Ph.D.(Dal.) (*Dept. of Neurology and Neurosurgery*)

M. Srour; M.D.C.M. (McG.), Ph.D. (Montr.), F.R.C.P.(C) (*Depts. of Pediatrics, Neurology and Neurosurgery*)

T. Stroh; Dip.(J. Liebig Univ. Giessen), Ph.D.(Max Planck) (*Dept. of Neurology and Neurosurgery*)

A. Suvrathan; B.Sc. (Delhi), Ph.D. (Tata Inst.) (*Depts. of Pediatrics, Neurology and Neurosurgery*)

V. Sziklas; Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

H. Takahashi; M.D., Ph.D.(Gunma), (*IRCM, Dept. of Experimental Medicine*)

C. Tardif; B.Sc. (McG.), M.Sc. (Imperial), Ph.D. (McG.) (*Depts. of Biomedical Engineering, Neurology and Neurosurgery*)

S. Trenholm; B.Sc. (Vic. BC) M.Sc., Ph.D. (Dal.) (*Dept. of Neurology and Neurosurgery*)

J. Van Raamsdonk; Ph.D. (Br. Col.) (*Dept. of Neurology and Neurosurgery*)

M. Vollrath; Ph.D.(Baylor) (*Dept. of Neurology and Neurosurgery*)

S. Villeneuve; Ph.D. (Montr.) (*Dept. of Psychiatry*)

S.C. Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin) (*Dept of Biology*)

T.Y. Zhang; M.D., M.Sc. (Yanbian), Ph.D. (Yonsei) (*Dept. of Psychiatry*)

Lecturer

TBA

Adjunct Professors

E. Racine; B.A.(Ott.), M.A., Ph.D.(Montr.) (*Dept. of Neurology and Neurosurgery*)

L. Xiong; Ph.D. (McG.)

11.12.15.5 Master of Science (M.Sc.) Neuroscience (Thesis) (45 credits)

Required Courses (36 credits)

NEUR 696	(6)	Master's Thesis Research
NEUR 697	(9)	Master's Thesis Proposal
NEUR 698	(9)	Master's Seminar Presentation
NEUR 699	(12)	Master's Thesis Submission
NEUR 705	(0)	Responsible Research Conduct

NEUR 630	(3)	Principles of Neuroscience 1
NEUR 631	(3)	Principles of Neuroscience 2

And 6 credits in other courses at the 500 level or higher that are relevant to the program.

Upon recommendation, depending upon their particular background and needs, students may be requested to take additional selected courses at the 500 level or higher.

Note: All M.Sc.-level students must register for a minimum of 12 credits per term during the first three terms of their master's program.

11.12.15.6 Doctor of Philosophy (Ph.D.) Neuroscience

Students with an M.Sc. degree continuing in this Department will receive credit exemptions for graduate coursework accomplished (including NEUR 630 or NEUR 631). It may be recommended that they take specialty courses related to their field of study in neuroscience. Students with an M.Sc. degree from another program will be required to take NEUR 630 and NEUR 631 and/or other courses listed under the M.Sc. degree depending upon their background and field of study.

Students with an M.D. degree proceeding directly into a Ph.D. program will be required to take NEUR 630 and NEUR 631. They will also be required to take 6 credits of graduate-level courses.

Thesis

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

Required Courses (6 credits)

NEUR 630	(3)	Principles of Neuroscience 1
NEUR 631	(3)	Principles of Neuroscience 2
NEUR 700	(0)	Doctoral Candidacy Examination
NEUR 705	(0)	Responsible Research Conduct

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level, approved by the graduate program adviser.

11.12.16 Occupational Health

11.12.16.1 Location

Department of Epidemiology, Biostatistics and Occupational Health
Purvis Hall
1020 Pine Avenue West
Montreal QC H3A 1A2
Canada
Telephone: 514-398-6258
Email: *graduate.eboh@mcgill.ca*
Website: *www.mcgill.ca/epi-biostat-occh*

11.12.16.2 About Occupational Health

The Department offers two graduate degree programs: a **master's** (M.Sc.A.) and **doctoral** (Ph.D.) in occupational health sciences. The master's program is available on campus or in distance education format. Special Student status is encouraged for students who wish to take only specific courses from our M.Sc. program, but there is a maximum of 12 credits overall, with a maximum of 6 credits per semester, for those with Special Student status.

Students are required to have access to a computer and the Internet, as some of the course material is most readily available online.

Note: We are not accepting applications for the Occupational Health M.Sc.A. (Distance) or Ph.D. programs until further notice.

section 11.12.16.5: Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Resident) (46 credits)

A three-term program leading to the degree of Master of Science (Applied) (M.Sc.A.) in Occupational Health Sciences, appropriate for graduates from engineering and basic sciences, physicians, and nurses. Occupational health training allows candidates to evaluate work environments and reduce or eliminate work hazards using prevention and control.

section 11.12.16.6: Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Distance) (45 credits)

This program is not currently accepting applicants.

A three-and-a-half-year program completed mostly over the Internet.

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.

111216321 Additional Requirements

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

M.Sc. Applied (Resident)

-

Required Courses (31 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.

Required Courses (2 credits)

OCCH 700	(0)	Ph.D. Comprehensive Examination

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- Personal Statement
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Lecturers

L. Monette; M.D.

L. Picard; M.D.(Montr.), F.R.C.S.(C)

J. Rothstein; M.D.,C.M.(McG.), F.R.C.S.(C)

R. Varshney; M.D., C.M., M.Sc., F.R.C.S.(C)

T.V.T. Vu; M.D.

R. Ywakim; M.D., F.R.C.S.(C)

11.12.17.5 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)	Biostats for Health Sciences

or equivalent.

Students aiming to acquire an interdisciplinary background will be expected to take additional elective courses, at the undergraduate level if necessary.

11.12.18 Pathology

11.12.18.1 Location

Department of Pathology
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11.12.18.2 About Pathology

Pathology is the specialized area of biomedical science that emphasizes the study of disease, and it is therefore one of the most multidisciplinary fields of research. Investigators in a pathology department may be utilizing information and experimental techniques originally developed in almost any area of modern biology and,n

Applicants who already possess an additional degree (M.Sc., M.D.) with appropriate research experience may be allowed to register in the Ph.D. program directly.

For further information, applicants may contact the Teaching Office, Department of Pathology: *gradstudies.pathology@mcgill.ca*.

Associate Professors

L. Alpert; M.D., Ph.D.(T

Assistant Professors

T.N.T. Nu; MD, F.R.C.P.(C)

A. Omeroglu; M.D.(Istanbul)

G. Omeroglu-Altinel; M.D.(Istanbul)

F. Razaghi; M.D.(Beheshti Univ. Medical Sciences, Tehran)

S. Sabri; Ph.D.(Paris VII)

S. Sandhu; M.B.,B.S.(N. Bengal Medical Coll.)

H. Srolovitz; B.Sc.(Pitt), M.D.(Basie)

J. St. Cyr; M.D.,C.M.(McG.), F.R.C.P.(C)

H. Wang; M.D.(China), F.R.C.P.(C)

Visiting Professors

A.S.M. Noman; Ph.D.(Aidai, Japan)

Associate Members

B. S. Abdulkarim; B.Sc.(Univeristy of Aix-Marseille-II), M.Sc.(Paris V), M.D., Ph.D.(Paris XI), F.R.C.P.(C)

C.J. Baglole; M.Sc.(PEI), Ph.D.(Calg.)

Nancy Braverman, M.S.(Sarah Lawrence College), M.D.(Tulane University), F.A.C.M.G.

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.

11.12.18.6 Doctor of Philosophy (Ph.D.) Pathology

Thesis

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

Required Courses (12 credits)

PATH 613	(3)	Research Topics in Pathology 1
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.

11.12.19 Pharmacology and Therapeutics

11.12.19.1 Location

Department of Pharmacology and Therapeutics
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler, Room 1325
Montreal QC H3G 1Y6
Canada
Telephone: 514-398-3623
Fax: 514-398-2045
Email: *gradstudies.pharmacology@mcgill.ca*
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- autonomic pharmacology;
- clinical pharmacology;
- biochemical pharmacology;
- molecular biology;
- toxicology.

The present 51 full and affiliate members of the Department ha

11.12.19.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Pharmacology and Therapeutics and may be revised at any time.

Assistant Professors

B. Castagner; Ph.D.(Col.)

L. Münter; Ph.D.(Free Univ., Berlin)

J.F. Trempe; Ph.D.(Oxf.)

Associate Members

M. Alaoui-Jamali; Ph.D.(Paris IV)

C. Baglole; Ph.D.(Calg.)

L. Diatchenko; M.D., Ph.D.(RNRMU)

L. Fellows; M.D., C.M.(McG.) Ph.D.(Oxf.)

S. Gauthier; M.D.(Montr.)

T. Geary; Ph.D.(Mich.)

B. Jean-Claude; Ph.D.(McG.)

B. Keiffer; Ph.D.(Strasbourg)

S. Kimmins; Ph.D.(Dal.)

S. Laporte; Ph.D.(Sher.)

C. O'Flaherty; Ph.D.(Buenos Aires)

P. Rosa-Neto; M.D.(Lisbon), Ph.D.(Aarhus)

S. Rousseau; Ph.D.(Laval)

Y. Shir; M.D.(Israel), Ph.D.(Johns Hop.)

L. Stone; Ph.D.(Minn.)

M. Ware; M.B.B.S.(West Indies)

T. P. Wong; Ph.D.(McG.)

Adjunct Professors

B. Allen, B. Boivin, S. Chemtob, Y. De Koninck, G. FitzHarris, J. S. Joyal, T. Sanderson

Affiliate Members

M. Boucher; Ph.D.(Montr.)

L. Breton; Ph.D.(Paris)

L. Garolalo; Ph.D.(McG.)

J. Gillard; Ph.D.(Tasmania)

J. Mancini; M.Sc., Ph.D.(McG.)

K. Meerovitch; Ph.D.(McG.)

11.12.19.5 Master of Science (M.Sc.) Pharmacology (Thesis) (45 credits)

The program leading to a master's degree is designed to provide students the opportunity to acquire knowledge in Pharmacology, to conduct a research project, to analyze data, and to write a thesis. Students will also receive essential training in Research Professionalism and Scientific Communication.

Thesis Courses (24 credits)

PHAR 696	(3)	Thesis Preparation
PHAR 698	(9)	Thesis Preparation 2
PHAR 699	(12)	Thesis Preparation 3

Required Courses (12 credits)

PHAR 601	(6)	Research Seminar
PHAR 609	(1)	Research Professionalism for Pharmacologists
PHAR 610	(2)	Scientific Communication for Pharmacologists
PHAR 712	(3)	Statistics for Pharmacologists

Complementary Courses (9 credits)

6 credits, from the following courses:

PHAR 503*	(3)	Drug Discovery and Development 1
PHAR 505*	(3)	Structural Pharmacology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology

Or completion of an equivalency exam

Or an exemption granted by the Graduate Training Committee (GTC) on the basis of previous courses.

* Students may take PHAR 503 or PHAR 505 but not both.

Students who have taken these courses as part of their undergraduate degree, passed the equivalency exam, or been exempted, will register for the following course:

PHAR 697	(6)	Thesis Preparation 1

3 credits, at the 700-level PHAR course(s), or the equivalent, upon approval by the GTC.

11.12.19.6 Master of Science (M.Sc.) Pharmacology (Thesis): Environmental Health Sciences (45 credits)

The M.Sc. in Pharmacology; Environmental Health Sciences will focus on the interplay between the environment and health. Environmental health research is highly interdisciplinary. Students will be given the opportunity to acquire a broad environmental perspective on exposure sciences, hazard screening methodologies, 3l6, hlms 0 1 67.52 3411

PHAR 671	(3)	Principles of Environmental Health Sciences 2
PHAR 701	(0)	Ph.D. Comprehensive Exam
PHAR 712	(3)	Statistics for Pharmacologists

One additional 700-level PHAR course (3 credits), or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Complementary Courses (3 credits)

3 credits, chosen from the following courses:

PHAR 503	(3)	Drug Discovery and Development 1
PHAR 505	(3)	Structural Pharmacology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology

Or completion of an equivalency exam;

Or an exemption granted by the GTC on the basis of previous courses.

11.12.20 Physiology

11.12.20.1 Location

Department of Physiology
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Canada
Telephone: 514-398-4343
Website: *www.mcgill.ca/physiology*

11.12.20.2 About Physiology

The Physiology Department offers training leading to **M.Sc.** and **Ph.D.** degrees. The scope of the ongoing research, and close connections with the McGill teaching hospitals, offer excellent opportunities for collaborations with hospital-based scientists. Research in the Department covers a broad range of topics from systems neuroscience to molecular and cellular biology. Interests include studies of nuclear and membrane receptors, transporters, channels, and signal transduction pathways, to the broader integration of physiological systems (cardiovascular, respiratory, renal, endocrine, immune, and central nervous systems) using an array of molecular and cellular approaches as well as quantitative techniques in data collection, analysis, and mathematical modelling by computational means.

All graduate students in Physiology receive financial support. Any faculty or associate member who agrees to supervise a graduate student who does not hold a fellowship is financially responsible for that student. Students are encouraged to apply for a fellowship; further information is available at *www.mcgill.ca/physiology/graduate-studies/financial-other-assistance*.

section 11.12.20.5: Master of Science (M.Sc.) Physiology (Thesis) (45 credits)

The M.Sc. program is intended for students from an academic background wishing to pursue careers in academia, industry, or in medicine. The multidisciplinary nature of the Department exposes students to a vast array of research interests and experimental approaches. Thesis work is available in a broad range of disciplines from molecular and cellular to systems physiology covering multiple organ systems. Students wishing to continue to the doctoral program have the option of transferring to the Ph.D., and waiving the M.Sc. thesis submission.

section 11.12.20.6: Master of Science (M.Sc.) Physiology (Thesis): Bioinformatics (45 credits)

This program is currently not offered.

The intention of the Bioinformatics option is to train M.Sc. students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating of bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option will be fluent in the concepts, language, approaches, and limitations of the field. The option consists of a number of interdisciplinary courses and a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field.

section 11.12.20.7: Master of Science (M.Sc.) Physiology (Thesis): Chemical Biology (45 credits)

The Chemical Biology option is designed to expose students to aspects of drug design and development, as well as their application to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lectures, seminar courses, and thematic workshops; all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in the pharmaceutical and biotechnology industries.

section 11.12.20.8: Doctor of Philosophy (Ph.D.) Physiology

The doctoral program is intended for students from a strong academic background wishing to pursue research-intensive careers in academia, industry, or in medicine. The multidisciplinary nature of the Department exposes students to a vast array of research interests and experimental approaches. Thesis work provides in-depth training in a broad range of disciplines from molecular and cellular to systems physiology covering multiple organ systems.

section 11.12.20.9: Doctor of Philosophy (Ph.D.) Physiology: Bioinformatics

This program is currently not offered.

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.

section 11.12.20.10: Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

The Chemical Biology option is designed to expose students to aspects of drug design and development, as well as their application to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lectures, seminar courses, and thematic workshops; all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in the pharmaceutical and biotechnology industries.

11.12.20.3 Physiology Admission Requirements and Application Procedures

11.12.20.3.1 Admission Requirements

Admission to the graduate program is based on an evaluation by the Graduate Student Admissions and Advisory Committee (GSAAC), and on being accepted by a research supervisor. Final acceptance is contingent upon approval of the recommendation of the applicant by Enrolment Services, from whom official notification will be received.

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent. Candidates who have completed an M.Sc. may be admitted directly to the Ph.D. program. M.Sc. students interested in a Ph.D. may fast track to the Ph.D. program after 12–18 months, following successful completion of the comprehensive exam. The M.Sc. thesis requirement is then waived. Candidates with exceptional academic records may be considered to proceed directly to the Ph.D. degree from the B.Sc. degree.

A minimum CGPA of 3.2 out of 4.0 or a GPA of 3.4 in the last two years is required for an application to be considered.

The *GRE* General Test is required for anyone who does not have a degree from a North American university.

Language Requirements

Test of English as a Foreign Language (*TOEFL*): minimum score of 100 on the Internet-based test (iBT; 600 on the paper-based test (PBT)) with each component score not less than 20. Only those whose mother tongue is English, who graduated from a North American institution (anglophone or francophone) or who completed an undergraduate or graduate degree at a foreign institution where English is the language of instruction are exempt from providing proof of competency in English.

11.12.20.3.2 Application Procedures

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

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

Applications should be submitted as early as possible in order to facilitate processing. However, no applications will be considered after the application deadlines.

11.12.20.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Two letters of reference
- Personal Statement
- GRE and TOEFL – for applicants whose undergraduate degree is not from a North American university

Professors

John Orlowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (*James McGill Professor*)

Premsyl Ponka; M.D., Ph.D.(Prague) (*joint appt. with Medicine*)

Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.) (*Hosmer Professor of Physiology*)

John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.) (*joint appt. with Medicine*)

Associate Professors

Claire Brown; B.Sc.(St. Mary's), Ph.D.(W. Ont.)

Erik Cook; Ph.D.(Baylor Coll., Tx)

Mladen Glavinovic; B.Sc.(Zagreb), M.Sc.(Tor.), Ph.D.(McG.)

Michael Guevara; Ph.D.(McG.)

Russell Jones; Ph.D.(Tor.)

Anmar Khadra; B.Sc.(C'dia), M.Sc., Ph.D.(Wat.)

Connie Krawczyk; B.Sc.(Guelph), Ph.D.(Tor.) (*joint appt. with Microbiology & Immunology*)

Reza Sharif-Naeini; B.Sc.(Montr.), M.Sc., Ph.D.(McG.)

Ursula Stochaj; Ph.D.(Cologne)

Associate Professor (Part-time)

Nicole Bernard; B.Sc.(McG.), Ph.D.(Duke)

Assista0 01u7.52 437.347 02.462 443.32 Tm(ofessors)Tj/F1 8.1 Tf1 0 0 1 70.52.42.76 TmcGi Bube; B.Sc., Ph..(McG.)

BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics

11.12.20.7 Master of Science (M.Sc.) Physiology (Thesis): Chemical Biology (45 credits)

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis Courses (27 credits)

PHGY 621	(12)	Thesis 1
PHGY 622	(12)	Thesis 2
PHGY 623	(3)	M.Sc. Final Seminar

Required Cour

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.

11.12.20.9 Doctor of Philosophy (Ph.D.) Physiology: Bioinformatics

** This program is currently not offered. **

Thesis

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

Required Courses (11 credits)

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

11.12.20.10 Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed

to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis

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

Required Courses (11 credits)

BIOC 610	(1)	Seminars in Chemical Biology 1
BIOC 611	(1)	Seminars in Chemical Biology 3
BIOC 689	(1)	Seminars in Chemical Biology 2
BIOC 690	(1)	Seminars in Chemical Biology 4
PHGY 604	(0)	Responsible Conduct in Research
PHGY 701	(0)	Ph.D. Comprehensive Examination
PHGY 703	(1)	Ph.D. Progress Seminar 1
PHGY 704	(1)	Ph.D. Progress Seminar 2
PHGY 720	(1)	Ph.D. Seminar Course 1
PHGY 721	(1)	Ph.D. Seminar Course 2
PHGY 722	(1)	Ph.D. Seminar Course 3
PHGY 723	(1)	Ph.D. Seminar Course 4
PHGY 724	(1)	Ph.D. Seminar Course 5

Complementary Courses (6 credits)

6 credits from the following:

	(3)	Advanced Bio-Organic Chemistry

section 11.12.21.5: Master of Science (M.Sc.) Psychiatry (Thesis) (45 credits)

The graduate program in Psychiatry is designed to provide advanced research training in the basic, applied, and social sciences relevant to issues in psychiatry. Applicants are admitted from a wide range of backgrounds, including undergraduate degrees in relevant areas (e.g., psychology, neuroscience, sociology, medical anthropology, nursing, and medicine), and those who are pursuing their psychiatry residency at McGill. Most, though not all students, continue to a Ph.D. program. The graduate program does not provide clinical training.

11.12.21.3 Psychiatry Admission Requirements and Application Procedures

11.12.21.3.1 Admission Requirements

- A B.Sc., B.A., B.N., or M.D. degree
- A strong background in science and/or social science, as demonstrated by academic achievement equivalent to a GPA of 3.3 (on a 4-point scale) or 3.5 in the last two years
- A written agreement from the proposed research supervisor, and student's statement of purpose for seeking an M.Sc.
- An outline of the proposed thesis research, to be written by the prospective student in collaboration with an appropriate research supervisor
- Two letters of reference
- Sufficient funding to support their studies
- *TOEFL* or *IELTS* certificate of proficiency in English for non-Canadian applicants whose mother tongue and language of education is not English, with a minimum score of 86 on the TOEFL Internet-based test (iBT; or 550 on the paper-based test [PBT]), with each component score not less than 20, or 6.5 on the IELTS test

11.12.21.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *.lR72 468.84 1 0 0 1 250.864 0 0 e4.26 6 Tm6 p9g10 Tf1 0*

Emeritus Professors

F. Abbott; B.Sc.(McM.), M.Sc., Ph.D.(McG.)

L. Annable; B.Sc.(Liv.), Dipl. in Stat.(Edin.)

M.K. Birmingham; B.A.(Bennington), M.Sc., Ph.D.(McG.)

F. Engelsmann

N. Frasure-Smith; B.A. Ph.D.(Johns Hop.)

A. M. Ghadirian

C. Gianoulakis; Ph.D.

J.C. Negrete; M.D., Dip.Psych.

J. Paris; M.D.(McG.)

G. Pinard; M.D.

S. Young

Professors

C. Benkelfat; M.D.(Rabat) (*James McGill Professor*)

D. Boivin; Ph.D.(Montr.)

P. Boksa; B.Sc., Ph.D.(McG.)

M. Bond; B.Sc., M.D.,C.M.(McG.)

J. Breitner; B.A.(Harv.), M.P.H.(Johns Hop.), M.D.(Penn.)

A. Brunet; Ph.D.(Montr.)

N. Cermakian; B.Sc.(UQTR), M.Sc., Ph.D.(Montr.)

M. Cole; B.Sc., M.D.,C.M.(McG.)

S. El Mestikawy; Ph.D.(Paris VI)

M.-J. Fleury; M.A., Ph.D.(Montr.)

C. Flores; B.Sc., M.A., Ph.D.(C'dia)

S. Gauthier; B.A., M.D.(Montr.)

B. Giros; M.Sc., Ph.D.(Paris VI)

A. Gratton; Ph.D.(C'dia)

J. Guzder; B.Sc., M.D.,C.M., F.R.C.P.

L.T. Hechtman; B.Sc., M.D.,C.M.(McG.)

R. Joober; M.D.(Tunisia), Ph.D.(McG.)

B. Kieffer; Ph.D.(Strasbourg)

S. King; Ph.D.(Virg.)

L.J. 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*)

G. Luheshi; Ph.D.(Newcastle, UK)

A. Malla; M.B.B.S.(Panjab)

M.J. Meaney; B.A.(Loyola), M.A., Ph.D.(C'dia) (*James McGill Professor*)

V.N.P. Nair; M.B., B.S.(Kerala), D.P.M.(Mys.)

R. Palmour; B.A., Ph.D.(Texas)

J.C. Perry; M.D.(Duke)

Professors

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.) (*Psychology*)

J. Poirier; Ph.D.(Montr.)

R. Quirion; M.Sc., Ph.D.(Sher.)

C. Rousseau; M.Sc.(McG.), M.D.,C.M.(Sher.)

L.K. Srivastava; B.Sc., M.Sc.(Allahabad), Ph.D.(J. Nehru)

H. Steiger; Ph.D.(McG.)

B. Thombs; B.A.(N'western), M.A.(Ariz.), Ph.D.(NYU)

G. Turecki; M.Sc., M.D.,C.M., Ph.D.(McG.) (*William Dawson Scholar*)

C.-D. Walker; B.Sc., Ph.D.(Geneva)

A. Young; B.A., M.A., Ph.D.(Penn.)

Associate Professors

L. Amirali; M.D.(Athens)

J. Armony; B.Sc.(Buenos Aires), M.Sc., Ph.D.(NYU)

P. Assalian; Dip.Psychol.(McG.), M.B.,Ch.B.(Cairo)

S. Beaulieu; M.D./Ph.D.(Laval)

M. Berlim; M.Med., M.D.(Rio Grande do Sul)

V. Bohbot; B.A.(McG.), M.A., Ph.D.(Ariz.)

M.J. Brouillette; M.D.,C.M.(Sher.)

N. Casacalenda; M.D.(Sher.), F.R.C.P.

E. Chachamovich; M.D.(Rio Grande do Sul), Ph.D.(Edin.)

D. Charney; M.D.,C.M.(McG.)

J.B. Debruille; M.D.(Paris XI), Ph.D.(Paris VI)

D. Dunkley; B.Sc.(Tor.), Ph.D.(McG.)

F. Elgar; M.Sc.(Nfld.), Ph.D.(Dal.)

P. Étienne; M.D.(Liege)

C. Fichten; B.Sc.(McG.), M.Sc.(C'dia), Ph.D.(McG.)

D. Frank; Dip.Psychol., M.D.,C.M.(McG.)

R. I. Fraser; M.D.(Dal.)

M.-C. Geoffroy; Ph.D.(Montr.)

K.G. Gill; B.Sc.(Br. Col.), M.A., Ph.D.(C'dia)

G. Gobbi; M.D.(Rome), Ph.D.(Cagliari)

I. Gold; Ph.D.(Princ.)

A. Granich; M.D.(McG.), F.R.C.P.

B. 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)

K. Igartua; M.D.,C.M.(McG.), F.R.C.P.(C)

M. Israël; B.Sc., Gr.Dip.Psych.(McG.), M.A.(Qu.), M.D.,C.M.(McG.)

E. Jarvis; M.D.(Alta.), M.Sc.(McG.), F.R.C.P.

T. Kolivakis; M.D.(Athens)

Associate Professors

K. Looper; B.Sc., M.D.(Ott.), M.Sc.(McG.)

O. Mantere; M.D.(Helsinki)

H.C. Margolese; M.D.(McG.), C.M., M.Sc.

N. Mechawar; B.Sc., M.Sc., Ph.D.(Montr.)

R. Montoro; M.D.,C.M., M.Sc., F.R.C.P.(C)

G. Myhr; M.D.,C.M., M.Sc.(McG.)

L. Nadeau; M.D.(Montr.)

J. Naiman; B.A., M.D.,C.M.(McG.)

J. Palacios-Boix; M.D., F.R.C.P.(C)

J. Pecknold; B.Sc.(C'dia), M.D.,C.M.(McG.)

M. Perreault; Ph.D.(Montr.)

A. Propst; B.Sc., Dip.Psychol., M.D.,C.M.(McG.)

M.N. Rajah; B.Sc., M.A., Ph.D.(Tor.)

R.A. Ramsay; B.Sc., Gr.Dip.Psychiat., M.D.,C.M.(McG.)

A. Raz; M.Sc., Ph.D.(Hebrew)

J. Renaud; M.Sc., M.D.(Montr.)

S. Renaud; M.D.(Laval)

B.M. Robertson; Dip.Psychol.(McG.), M.B.,Ch.B.(Otago)

J. Rochford; M.A.(Qu.), Ph.D.(C'dia)

P. Rosa; M.D.(Rio Grande do Sul), Ph.D.(Aarhus)

Z. Rosberger; Ph.D.(C'dia)

M. Ruiz Casares Yebenes; Ph.D.(Cornell)

R. Russell; M.D.(McG.)

N. Schmitz; Dipl., Ph.D.(Univ. Dortmund)

S. Singh; M.D.(Calg.), F.R.C.P.

D. Sookman; B.A.(McG.), M.A.(Guelph), Ph.D.(C'dia)

W. Steiner; M.D.,C.M.(McG.)

F.K. Storch; M.Sc.(Munich), Ph.D.(Max Planck Inst. Biochem.)

B. Suranyi-Cadotte; B.Sc., M.Sc.(McG.), M.D.,C.M.(Montpellier)

A. Wazana; B.A.(McM.), M.Sc.(Col.), M.Sc.(McG.), M.D.(McM.)

S. Williams; Ph.D.(Montr.)

G. Wiviott; B.Sc.(Wisc.), Gr.Dip.Psychiat.(McG.), M.D.,C.M.(NYU)

T.P. Wong; B.Sc., M.Ph.(HK), Ph.D.(McG.)

P. Zelkowitz; Ph.D.(McG.)

M. Zoccolillo; B.Sc.(New Orleans), M.D.(Norfolk)

Assistant Professors

D. Awad; M.D.(Montr.)

S.M. Bailes; Ph.D.(C'dia)

P. Bajsarowicz; M.D.(McG.), F.R.C.P.(C)

E. Banon; M.D.,C.M.(McG.)

M. Barbarosie; M.D., Ph.D.(Montr.)

Assistant Professors

L. Beauclair; B.Sc., M.D.(Laval)

C. Beneirakis; Gr.Dip.Psychiat.(McG.), M.D.(Trin. Coll.,Tor.)

R. Biskin; M.D., M.Sc.(McG.)

P. Bleau; B.Sc., Gr

Assistant Professors

Assistant Professors

Z. Prelevic; Dip.Psychol.(McG.), M.D.,C.M.(Belgrade)

A. Propst; M.D.

M. Rabinovitch; B.Sc., M.D.,C.M.(McG.)

S. Rej; M.D., M.Sc.(McG.)

S.B. Rosenbloom; B.A.(C'dia), M.A.(York)

C. Roy; B.Sc.(McG.), M.D.,C.M.(Dal.)

T. Said; B.Sc.(McG.), M.D.,C.M.(Sher.)

H. Schwartz; M.D.(McG.)

M. Segal; B.A.(C'dia), B.Sc.(O.T.)(McG.), M.D.,C.M.(Ott.)

J. Seguin; B.A., B.Sc., M.D.,C.M.(Ott.)

T. Semeniuk; B.Sc., M.Ed., M.D.,C.M.(Alta.)

J. Shah; M.Sc.(Lond.), M.D.(Tor.)

O. Sidhom; M.D.

M. Sigman; B.A.(McG.), M.A., Ph.D.(C'dia)

P.P. Silveira; M.D., Ph.D.

I. Spector; B.A.(McG.), M.Sc., Ph.D.(Syrac.)

K.A. Steger; M.D., Ph.D.(Texas, Southwest. Med. Cent.)

A. St-Hilaire; M.Sc.(McG.), Ph.D.(Ohio)

M. St-Laurent; M.D.(Montr.)

N. Szkrumelak; B.Sc., M.D.,C.M.(McG.)

K. Tabbane; M.D., Ph.D.(Tunisia)

M. Temple; M.D.

P. Tetreault; M.D.,C.M.(Sher.)

L. Thaler; Ph.D.(Nevada)

Z. Thomas; M.D.(McG.)

L. Tourian; M.D.(McG.)

A. Traicu; M.D.(McG.)

J. Tremblay; B.A.(Montr.), M.Sc.(McG.), M.D.,C.M.(Montr.)

J. Guimezap Tsopmo; M.D.(Laval)

S. Veissière; Ph.D.(Mc.G.)

S. Vida; B.Sc.(Ott.), M.D.,C.M.(McG.)

S. Villeneuve; Ph.D.(Montr.)

J. Vogel; M.D.,C.M.(Manit.)

R. Whitley; B.S., M.S., Ph.D.(Lond.)

M.A. Wolf; M.Sc., M.D.,C.M.(Strasbourg)

Y. Wolf; M.D.(McG.)

G. Zahirney; M.D.(McG.)

T.Y. Zhang; Ph.D.(McG.)

V. Zicherman; B.Sc., M.D.,C.M.(McG.)

D. Zigman; M.D.(McG.)

E. Zikos; M.D.(Montr.)

Lecturers

F. Amdiss, N. Beauchemin, T. Bedrossian, J.F. Belair, F. Bensaada, I. Blais, C. Blake, M. Boisvert, O. Boureanu, C.M.J. Brebion, A. Cadivy, E. Casimir, E. Cauchois, P. Chan, M.B. Cotfas, M. Coward, T.-V. Dao, M.H.N. Dinh, H.C. Dube, J.A. Farquhar, H. Goldhaar, P. Harden, J. Harvey, M. Heyman, H.G. Jean-Francois, D. Kunin, N. Kuperstok, R.A. Labonte, S. Mauger, D. Michaud, D.F.S. Monti, K. Myron, R. Orenman, C. Paquin-Hodge, R. Payeur, L. Peters, M. Pickles, G. Pierre-Louis, M. Quintal, K. Richter, D.T. Rochon, A. Schiavetto, V. Tagalakis, F.C. Toma, O. Triffault, E. Veljanova, S. Wisebord, C.H.A. Zarowsky

Associate Members

R.C. Bagot, S. Bond, J.L. Derevensky, M. Drapeau, A. Evans, M-C Geoffroy, M. Larose, M. MacKenzie, L. McVey, T. Montreuil, G. O'Driscoll, J. Russell, R.N. Spreng, J.I. Trakadis

Adjunct Professors

M. Alda, P. Blier, L. Booij, A. Daigneault, A. Duffy, D. Fikretoglu, R. Fugere, A. Gagnon, J.-M. Guile, K. Hyde, F. Jollant, V. Kovess, A. Lesage, S.J. Lloyd, A. Maccordick, T. Ngo-Minh, J. Pruessner, M. Pruessner, S. Richard-Devantoy, A. Ryder, S. Sultan, C. Tranulis, P. Vitali

Post-Retirement

D.P. Dastoor, J.P. Ellman

11.12.21.5 Master of Science (M.Sc.) Psychiatry (Thesis) (45 credits)

The M.Sc. in Psychiatry is administered by the Graduate T, L.

11.12.22.3 Experimental Surgery Admission Requirements and Application Procedures

11.12.22.3.1 Admission Requirements

M.Sc. Core Program

Usually a B.Sc., M.D., or D.V.M. degree is required, with a minimum CGPA of 3.2/4.0. Applications will be accepted from candidates sponsored by a research supervisor willing to provide laboratory space, funding, and direction for their research work.

M.Sc. Concentrations

Generally a B.Sc. in biological, biomedical and life science; physical science; computer science; an M.D. degree; or a B.Eng. is required. Exceptionally

* *Application to the Graduate Certificate in Surgical Innovation is only available for the Fall term.*

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

11.12.22.4 Surgery, Experimental Faculty

Director

A. Philip

Associate Director

L. Haglund

Professors

J. Antoniou; M.D.,C.M., Ph.D.(McG.), F.R.C.S.(C)

A. Aprikian; M.D.(Sher.), F.R.C.S.(C)

J. Barkun; M.D., M.Sc.(McG.)

J. Barralet Beng; Ph.D.(Lond.)

P. Brodt; B.Sc.(Bar-Ilan), M.Sc.(Ott.), Ph.D.(McG.)

S. Chevalier; B.Sc., M.Sc., Ph.D.(Montr.)

P. Chan; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C)

M.M. Elhilali; M.B., B.Ch., D.S., DU, M.Ch.(Cairo), Ph.D.(McG.)

S. Emil; M.D.,C.M.(McG.), F.R.C.S.(C)

L. Feldman; M.D.,C.M., M.Sc.(McG.)

L. Ferri; M.D.,C.M., M.Sc.(McG.)

G.M. Fried; B.Sc., M.D.,C.M.(McG.)

P.H. Gordon; M.D.(Sask.)

R. Hamdy; M.Sc., M.D.(Egypt), F.R.C.S.(C)

E. Harvey; B.Sc.(Ont.), M.D.,C.M., M.Sc.(McG.)

T.E. Hebert; Ph.D.(Tor.)

J.E. Henderson; Ph.D.(McG.)

J.M. Laberge; M.D.(Laval)

S. Meterissian; M.D.,C.M., M.Sc.(McG.)

P. Metrakos; B.Sc., M.D.(McG.), F.R.C.S.(C)

D.S. Mulder; M.D.(Sask.), M.Sc.(McG.)

A. Philip; M.Sc., Ph.D.(McG.)

L. Rosenberg; M.Sc., M.D., Ph.D.(McG.)

D. Shum-Tim; M.Sc., M.D.,C.M.(McG.)

R. St. Arnaud; Ph.D.(Laval)

T. Taketo-Hosotani; B.Sc., M.Sc., Ph.D.(Kyoto)

M. Tanzer; M.D.,C.M.(McG.), F.R.C.S.(C)

C.I. Tchervenkov; B.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)

J.I. Tchervenkov; M.D.,C.M.(McG.), F.R.C.S.(C)

R. Turcotte; M.D.(Montr.)

Associate Professors

M. Basik; M.D.,C.M., M.Sc.(McG.)

S. Bergman; M.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)

Associate Professors

O. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.)

R. Cecere; M.D.,C.M., B.Sc.(McG.), F.R.C.S.(C), A.B.S., F.A.C.S.

D. Fleiszer; B.Sc., M.D.,C.M.(McG.)

S. Fraser; B.Sc., M.D.(Tor.), M.Sc.(McG.), F.R.C.S.(C)

M. Gilardino; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C), F.A.C.S.

L. Haglund; B.Sc., Ph.D.(Lunds)

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)

A. Meguerditchian; M.D., M.Sc.(Montr.), F

transfer experience through training and courses. Students choosing this option will have the opportunity to engage in international research projects including injury epidemiology surveillance and assessment of surgical access through the study of databases. The thesis must be relevant to global surgery.

Thesis Courses (30 credits)

EXSU 690	(4)	M.Sc. Research 1
EXSU 691	(4)	M.Sc. Research 2
EXSU 692	(4)	M.Sc. Research 3
EXSU 693	(18)	M.Sc. Thesis

Required Courses (12 credits)

11.12.22.8 Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Innovation (45 credits)

The M.Sc. in Experimental Surgery, Concentration in Surgical Innovation, offers graduate-level training program in experimental surgery, leading to a Master's degree. This concentration allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs driven, and marketable prototypes used in development of novel surgical and medical devices. As such participants w

EDPE 575	(3)	Statistics for Practitioners
EPIB 507	(3)	Biostats for Health Sciences
EXSU 606	(3)	Statistics for Surgical Research

Complementary Courses (15 credits)

3 credits selected from:

EXSU 603	(3)	Skills Acquisition and Performance
FMED 525	(3)	Foundations of Translational Science

6 credits selected from:

EDPE 637	(3)	Issues in Health Professions Education
EDPH 689	(3)	Teaching and Learning in Higher Education
EPIB 521	(3)	Regression Analysis for Health Sciences
EXSU 505	(3)	Trends in Precision Oncology
EXSU 620	(3)	Surgical Innovation 1
EXSU 621	(3)	Surgical Innovation 2
PPHS 528	(3)	Economic Evaluation of Health Programs

Note: Students either take EDPE 637 and EDPH 689; or EPIB 521 and PPHS 528; or EXSU 620 and EXSU 621.

6 credits selected from:

ANAT 690D1	(3)	Cell and Developmental Biology
ANAT 690D2	(3)	Cell and Developmental Biology
BMDE 653	(3)	Patents in Biomedical Engineering
BMDE 654	(3)	Biomedical Regulatory Affairs - Medical Devices
BMDE 655	(3)	Biomedical Clinical Trials - Medical Devices
DENT 669	(3)	Extracellular Matrix Biology
DENT 673	(3)	Biotechnology and Entrepreneurship
EDPE 637	(3)	Issues in Health Professions Education
EDPE 687	(3)	Qualitative Methods in Educational Psychology
EDPH 689	(3)	Teaching and Learning in Higher Education
EPIB 641	(1)	Substantive Epidemiology 1
EPIB 643	(1)	Substantive Epidemiology 3
EPIB 681	(3)	Global Health: Epidemiological Research
EXMD 609	(3)	Cellular Methods in Medical Research
EXMD 610	(3)	Molecular Methods in Medical Research
EXSU 605	(3)	Biomedical Research Innovation
EXSU 620	(3)	Surgical Innovation 1
EXSU 621	(3)	Surgical Innovation 2
EXSU 623	(6)	Surgery Research Project 2
EXSU 684	(3)	Signal Transduction
FMED 619	(3)	Program Management in Global Health & Primary Health Care
PHGY 517	(3)	Artificial Internal Organs

PHGY 518	(3)	Artificial Cells
PHGY 550	(3)	Molecular Physiology of Bone
PPHS 511	(3)	Fundamentals of Global Health
PPHS 529	(3)	Global Environmental Health and Burden of Disease

Electives (6 credits)

6 credits taken from 500-, 600-, or 700-level courses at the University will be taken with the approval of the director of the program/adviser

EXSU 606	(3)	Statistics for Surgical Research

Some courses may be substituted with equivalents if timetabling requires it.

Elective Course (3 credits)

3 credits at the 500 level or higher, taken in consultation with the program director/adviser.

11.12.22.12 Graduate Diploma (Gr. Dip.) Surgical Innovation (30 credits)

The cores of this 30-credit program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Experimental Surgery (EXSU 620-Surgical Innovation & 621-Surgical Innovation 2) and supporting courses are delivered by the McGill Department of Surgery with some sessions in those courses provided by external partners: Local Industry (Regulatory & IP), the John Molson School of Business (JMSB) (lean start-up), Concordia University (software design), and L'École de technologie supérieure (ETS) (prototyping). Secondly, fundaureup

12 Schulich School of Music

12.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 10,000 graduate students in over 400 programs. *GPS* is here to support you from admissions through to graduation and beyond. We take a holistic approach to graduate student success; we support not only your academic development, but also your career-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

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

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

12.2 Graduate and Postdoctoral Studies

12.2.1 Administrative Officers

Administrative Officers	
Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)	**Dean (Graduate and Postdoctoral Studies)**
Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)	**Associate Dean (Graduate and Postdoctoral Studies)**
France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lorraine Chalifour; B.Sc., Ph.D.(Manit.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Elisa Pylkkanen; B.A., M.A.(McG.)	**Director (Graduate and Postdoctoral Studies)**

12.2.2 Location

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

12.4 Graduate Studies at a Glance

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

12.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

12.6 Graduate Admissions and Application Procedures

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

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

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

12.7 Fellowships, Awards, and Assistantships

Please refer to *University Regulations & Resources* > *Graduate* > *section 1.5: Fellowships, Awar*

leave is added to this period of time. Leaves for other reasons, including vacation leave, do not extend the term. Postdocs must do research under the supervision of a McGill professor, including Adjunct Professors, who is a member of McGill's academic staff qualified in the discipline in which training is being provided and with the abilities to fulfil responsibilities as a supervisor of the research and as a mentor for career development. They are expected to be engaged primarily in research with minimal teaching or other responsibilities.

2. Registration

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

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

3. Appointment, Pay, Agreement of Conditions

i. Appointments may not exceed your registration eligibility status.

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

iii. At the outset of a postdoctoral appointment, a written Letter of Agreement for Postdoctoral Education should be drawn up and signed by the Postdoc, the supervisor, and the department head or delegate (see template Letter of Agreement and supporting document—*Commitments of Postdoctoral Scholars and Supervisors*—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leav

- 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.

Category 1: An individual who has completed requirements for the Doctoral degree or medical specialty, but whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- 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 S67.4tenrf1 0 0 1 81.511

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

12.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

12.12.1 Schulich School of Music

12.12.1.1 Location

Schulich School of Music
Strathcona Music Building
555 Sherbrooke Street West
Montreal QC H3A 1E3
Canada
Telephone: 514-398-4469
Website: *www.mcgill.ca/music*

12.12.1.2 About Schulich School of Music

The Schulich School of Music of McGill University is internationally renowned for its leadership in combining professional conservatory-style musical training, humanities-based scholarship, and scientific-technological research at the highest levels. Its programs encourage musicians and music researchers alike to push boundaries and explore new possibilities. The School's facilities are a physical affirmation of our commitment and belief in the future of music, artists, creators, and researchers, and they encourage multimedia productions and trans-disciplinary collaborations. Among the most notable facilities are:

- a music library that houses one of the most important academic music collections in Canada;
- four concert halls;
- the Digital Composition Studio;
- sound recording studios;
- the *Centre for Interdisciplinary Research in Music, Media and Technology* (CIRMMT);
- as well as a research network that links the Faculty with other University departments and research institutes.

Nestled in the heart of the city, the School also draws on the rich cultural life of Montreal—a bilingual city with a celebrated symphony orchestra, dozens of annual festivals, and hundreds of live music venues hosting world-class concerts.

The **Master of Arts degree (M.A.)** is available as a thesis option in Music Education, Music Technology, Musicology (with an option in Gender and Women's Studies), and Theory (with an option in Gender and Women's Studies), and as a non-thesis option in Music Education, Musicology, and Theory.

The **Master of Music degree (M.Mus.)** is available in Composition, Performance, and Sound Recording. Specializations offered within the performance option are: piano, guitar, orchestral instruments (including orchestral training), organ and church music, conducting, collaborative piano, opera and voice, early music, and jazz.

The **Graduate Certificate** in Performance – Choral Conducting is designed for choral conductors wishing to perfect their technical, pedagogical, and musical skills. This flexible program allows conductors to develop their craft while maintaining their professional activities.

The **Graduate Diploma** in Performance is a one-year graduate diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects.

The **Graduate Artist Diploma** in Performance is the uppermost diploma offered at the Schulich School of Music. It is tailored for artists wishing to achieve the highest level of artistry in their craft.

The **Doctor of Music degree (D.Mus.)** is offered in Composition and Performance Studies while the **Doctor of Philosophy degree (Ph.D.)** is available in Composition, Music – Gender and Women's Studies, Music Education, Musicology, Music Technology, Sound Recording, and Music Theory. Interdisciplinary studies are encouraged.

Funding

The Schulich School of Music has several sources of funding for graduate students.

Entrance Excellence Scholarships for highly ranked graduate students (including Schulich Scholarships, Max Stern Fellowships, and McGill Excellence Fellowships) typically range in value from $5,000 to $20,000; some two- and three-year packages are available at the master's and doctoral levels, respectively (see *www.mcgill.ca/gps/funding*). A limited number of one-year differential fee waivers are also available for the most highly ranked incoming international students. The Scholarships and Student Aid Office offers information and options for out-of-province, American, and other international students (see *www.mcgill.ca/studentaid*).

Returning students are eligible for a small number of in-course scholarships awarded annually to recognize excellence in academic and performance achievement.

The Schulich School of Music also has a renowned mentoring program that helps students develop applications for a wide variety of external funding for

section 12.12.1.7: Master of Arts (M.A.) Music: Music Technology (Thesis) (45 credits)

math, computer science, acoustics, and experimental psychology. Core seminars include Computer Music, New Media, Musical Acoustics, Digital Signal Processing, Human-Computer Interaction, Synthesis and Gestural Control, Music Information Retrieval, and Music Perception and Cognition. Students' research is supported by state-of-the-art research laboratories and computing facilities directed by each faculty member and the multidisciplinary and multi-institutional infrastructure of The Centre for Interdisciplinary Research in Music, Media and Technology (CIRMMT), The Digital Composition Studio, and 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 many continue their studies at the doctoral level in preparation for academic careers.

For more information, see *www.mcgill.ca/music/programs/ma-music-technology*.

section 12.12.1.8: Master of Arts (M.A.) Music: Musicology (Thesis) (45 credits)

This program is for talented music students interested in the diverse ways in which music's political, social, and historical contexts shape its meanings. Students are introduced to foundational methodologies and develop critical thinking skills, while exploring themes in musicological literature and refining analytical skills. The thesis project enables development of personal interests. 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, and other fields.

For more information, see *www.mcgill.ca/music/programs/ma-musicology*.

section 12.12.1.9: Master of Arts (M.A.) Music Musicology (Thesis): Gender and Women's Studies (45 credits)

section 12.12.1.13: Master of Arts (M.A.) Music: Music Education (Non-Thesis) (45 credits)**,**

section 12.12.1.14: Master of Arts (M.A.) Music: Musicology (Non-Thesis) (45 credits)**, and**

section 12.12.1.15: 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.

The option in **Music Education** provides an opportunity for studio-, classroom-, and community-based music educators to read, understand, and apply research studies in different fields to their own practices.

The option in **Musicology** is for students interested in a humanistic orientation to topics in music history and musicology that bridges traditional methodologies with new critical approaches.

The option in **Theory** develops skill with different analytical models and the ways in which they may be used to explore how specific pieces of music are put together.

Some graduates continue to doctoral studies; others pursue careers in teaching, arts management, music business, journalism, and librarianship, among others.

For more information, see *www.mcgill.ca/music/admissions/graduate/masters*.

section 12.12.1.16: Master of Music (M.Mus.) Performance: Jazz Performance (Thesis) (45 credits)

The M.Mus. in Jazz Performance is flexibly designed to offer specialization in Jazz Composition, Jazz Performance, and Jazz Orchestra training. All students take courses in jazz pedagogy, composition, and arranging, and benefit from close interaction with a diverse, creative, and professionally active faculty. A recital and a CD recording of original music are the principal thesis requirements. The outstanding ensembles include the McGill Jazz Orchestra, the ten-piece McGill Chamber Ensemble, two more jazz orchestras, a saxophone ensemble, and over twenty jazz combos. Teaching opportunities vary from year to year, but are generally available in Jazz Theory, Jazz Ear Training, Jazz Orchestra 3, Jazz Improvisation, and Jazz Combo. Montreal's vibrant jazz scene also provides rich opportunities for performance and musical engagement.

Graduates have active touring careers, teach in university jazz programs, and have produced recordings that have earned Juno awards.

For more information, see *www.mcgill.ca/music/programs/mmus-jazz*.

section 12.12.1.17: Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

Established in 1975, this program is the longest-standing Early Music program in North America. It offers early music specialists interested in historical performance practices a rich variety of performing experiences, including 15–20 chamber ensembles, the Cappella Antica, and the Baroque Orchestra. McGill is also the only North American music faculty to produce a fully staged performance of a Baroque opera every year. Recent productions include: Handel's *Alcina*, *Agrippina*, and *Imeneo*, Lully's *Thésée*, and Purcell's *Dido and Aeneas*. Faculty members are prominently involved in Montreal's internationally acclaimed Early Music community. The Schulich School of Music also owns a large collection of early instruments that is available to students.

Graduates perform with Montreal-based early music ensembles, including, among others, *Caprice* and the *Arion Baroque Orchestra*, as well as *Tafelmusik* in Toronto, and various ensembles in Europe.

For more information, see *www.mcgill.ca/music/programs/mmus-early-music*.

section 12.12.1.18: Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

The M.Mus. in Orchestral and Guitar Performance, Canada's premier orchestral training program, is for talented instrumental musicians and guitarists wishing to hone their artistry and skills in expression and interpretation. The program offers a flexibly designed curriculum rich in performance opportunities while its range of seminar offerings ground performance practice in the broader humanistic and scientific contexts of music and artistic research-creation. The program has a strong focus on healthy performance, individual creativity, and development of the whole musician.

Ensembles emulate professional settings and include four orchestras—the renowned McGill Symphony Orchestra, the McGill Wind Orchestra, the Contemporary Music Ensemble, and the Baroque Orchestra—as well as the smaller Beethoven orchestra and a guitar ensemble. Opportunities for chamber music also abound. String players benefit from a rigorous string quartet training program and trail-blazing pedagogical approaches. Brass and wind musicians also perform a wide range of large ensemble repertoire for their instruments; percussionists perform, tour, and record with the esteemed McGill Percussion Ensemble. Thesis recital options include solo, chamber music, concerto competitions, recording, and orchestral repertoire exams emulating professional auditions.

Ensemble conductors are world-class; faculty include the concertmasters and principal players of major Canadian orchestras, including the Montreal Symphony Orchestra; percussion instructors have international profiles and a breadth of experience in world and contemporary repertoires.

Graduates have secured positions in orchestras throughout North and South America, in Europe, and with the Canadian Opera Company, Ensemble Moderne, and others.

For more information, see *www.mcgill.ca/music/programs/mmus-orchestral-instruments-guitar*.

section 12.12.1.19: Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis) (45 credits)

Students in this program develop their artistry as collaborative musicians in vocal, instrumental, and opera répétiteur settings. The program prepares pianists to assume coaching responsibilities as well as to collaborate with other musicians. Candidates need to have excellent technique and interpretative skills, sight-reading abilities, and previous collaborative experience. The program is flexibly defined to allow students to specialize or gain experience in a variety of settings and with a broad cross-section of vocal, instrumental, orchestral, and theatrical repertoire. Concert recitals, choral ensembles, studio lessons with high-quality performers, and opera productions provide professional settings in which students master their craft. Faculty includes internationally renowned collaborative pianists, vocal coaches, conductors, and stage directors.

Graduates pursue careers as collaborative pianists, accompanists, opera répétiteurs, studio teachers, and coaches.

For more information, see *www.mcgill.ca/music/programs/mmus-collaborative-piano*.

section 12.12.1.20: Master of Music (M.Mus.) Performance: Piano (Thesis) (45 credits)

Students in the M.Mus. in Piano develop artistic expression and interpretative skills by immersing themselves in a vibrant musical environment. The program revolves around an integrated piano seminar involving all studios and provides opportunities for chamber music and a range of recital options including solo and chamber music performance, sound recording, and creative interdisciplinary projects. Faculty members perform internationally and have diverse teaching, coaching, and adjudicating experience in a broad range of solo, chamber, and concerto repertoires.

Graduates often continue their studies at the doctoral level, have been selected for national/international competitions, and pursue careers as collaborative pianists, opera coaches, and independent studio teachers.

For more information, see *www.mcgill.ca/music/programs/mmus-piano*.

section 12.12.1.21: Master of Music (M.Mus.) Performance: Organ and Church Music (Thesis) (45 credits)

This program provides talented organists with an opportunity to hone their artistry and interpretive skills. The program combines performance with seminars in historically-informed performance practice, music and liturgy, counterpoint, improvisation, and continuo playing, 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. 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 careers as soloists and/or as church musicians around the world.

For more information, see *www.mcgill.ca/music/programs/mmus-organ*.

section 12.12.1.22: Master of Music (M.Mus.) Performance: Conducting (Thesis) (45 credits)

Students in this program specialize in instrumental or choral conducting. Enrolment is limited to outstanding candidates having highly developed musical skills in voice, instrumental, or piano performance. The program provides for concentrated podium time, interactions with world-class conductors, score study, and the development of rehearsal technique. A range of seminars provides for the in-depth study of performance practice and the development of analytical skills with leading scholars in musicology and theory. Thesis performance projects involve concert recitals with various Schulich School of Music ensembles.

For more information, see *www.mcgill.ca/music/programs/mmus-conducting*.

section 12.12.1.23: 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 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 staged opera productions every year, including one Baroque opera with period instruments. Other performance opportunities include solo recitals, studio concerts, vocal ensembles such as 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. Voice faculty

Graduate Diplomas

section 12.12.1.25: Graduate Diploma (Gr. Dip.) Performance (30 credits)

This one-year graduate performance diploma allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloists, opera singers, collaborative pianists, chamber, jazz and orchestral musicians, or for further graduate studies in performance. Program requirements are flexible, with a range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or an M.Mus.

For more information, see *www.mcgill.ca/music/programs/gdp*.

section 12.12.1.26: Graduate Artist Diploma (Gr. Art. Dip.) Performance (30 credits)

The Graduate Artist Diploma is the uppermost diploma offered at the Schulich School of Music. It is tailored for artist performers wishing to achieve the highest level of artistry in their craft through intensive coaching, practicing, and performance projects. Candidates are preparing for stage careers as soloists and orchestral musicians, opera singers, collaborative pianists, and chamber ensembles. Program requirements are flexible, with a range of performance project options relevant to the diverse opportunities of the modern artist (chamber, recording, creative collaborations, etc.). Students can be admitted to this year-long program after completing the Graduate Diploma in Performance (GDP) program or equivalent. Admissibility to the combined Graduate Diploma in Performance and Graduate Artist Diploma can be assessed in a single audition.

For more information, see *www.mcgill.ca/music/programs/adip*.

Doctoral Programs

section 12.12.1.27: Doctor of Music (D.Mus.) Music: Composition

Students create extended original works of art that push the boundaries of the discipline. Composers refine their musical language and artistic voice through private instruction with some of Canada’s most accomplished composers, all of whom have distinguished themselves through high-profile commissions, performances, recordings, and awards. The faculty members have diverse interests that ensure composers will find a suitable mentor.

The resources of the Digital Composition Studios also offer composers an opportunity to work with a wide range of cutting-edge approaches to music technology. Students benefit from international new music festivals and conferences co-sponsored by the Schulich School of Music, a visiting artist series, and high-quality performances, readings, and recordings of their works by some of the school’s most esteemed ensembles and advanced performers. Commissioning opportunities exist through an established composer-in-residence program and through student-initiated, performer-composer and interdisciplinary collaborations.

For more information, see *www.mcgill.ca/music/programs/dmus-composition*.

section 12.12.1.28: Doctor of Music (D.Mus.) Music: Performance Studies

This program is for the inspired artist/scholar interested in expanding horizons. Students perform at a professional or near-professional level, are curious, and have research interests linked to their artistic practice. A broad range of seminars explore performance practice in the broader humanistic and scientific contexts of music, while encouraging the critical thinking and the fertile exchange of ideas that promote new ways of engaging with music. Two performance (recital/recording) projects extend repertoire interests. Comprehensive examinations develop credentials in different areas of expertise in preparation for teaching careers, while articulating the background and critical issues surrounding students' thesis work. The latter consists of a recital and a research document that is presented in front of a panel. The artistic research may assume a variety of forms from the study of scores, works, and contextual influences through the analysis of performance itself and the creation of new works.

Students benefit from exceptional mentoring by internationally renowned coaches, the research expertise of faculty from the Department of Music Research, master classes, opportunities to collaborate with strong composition students, and the rich performance life of the Schulich School of Music and Montreal. Students win major fello

Sexuality, and Feminist Studies that includes faculty and graduate students from across the University. Supporting music faculty has interests in Opera, film studies, aesthetics, theory of performance, and popular/jazz studies.

For more information, see *www.mcgill.ca/music/admissions/graduate/doctoral*.

12.12.1.3 Schulich School of Music Admission Requirements and Application Procedures

12.12.1.3.1 Admission Requirements

Master's Degrees

Applicants for the master's degree must hold a bachelor's degree or its equivalent (as determined by McGill University), typically with a Major in music, including considerable work done in the area of specialization.

Applicants found to be deficient in their background preparation may be required to take certain additional undergraduate courses.

All applicants (except those for Performance, Musicology, and Sound Recording) will be required to take placement examinations.

All M.Mus. performance applicants are required to pass an audition. Applicants can attend a live audition or submit recorded material.

Conducting, female voice, and jazz applicants who apply for the live audition option must submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition. For more information, see *www.mcgill.ca/music/programs*.

Specific admission and document requirements for each program are outlined at *www.mcgill.ca/music/admissions/graduate/masters*.

Certificate in Performance: Choral Conducting

Applicants for the Certificate in Choral Conducting must hold a bachelor's degree or its equivalent (as determined by McGill University), typically with a Major in music, including considerable work done in the area of specialization.

All applicants for the Certificate in Choral Conducting are required to pass an audition. Applicants can attend a live audition or submit recorded material.

Applicants who apply for the live audition option must submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition. For more information, see *www.mcgill.ca/music/programs/cert-performance-choral-conducting/admissions/auditions*.

Specific admission and document requirements for each program are outlined at *www.mcgill.ca/music/programs/cert-performance-choral-conducting/admissions/apply*.

Graduate Diploma in Performance

Applicants for the Graduate Diploma in Performance must hold a B.Mus. or a B.A. degree with a Major or an Honours in music, a Licentiate, or an M.Mus., including considerable work in the area of specialization. All diploma applicants are required to pass an audition. Applicants can attend a live audition or submit recorded material. Female voice and jazz applicants who apply for the live audition option will be required to submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition; see *www.mcgill.ca/music/admissions/graduate/diploma*. Specific admission and document requirements for each program are outlined at *www.mcgill.ca/music/admissions/graduate*.

Graduate Artist Diploma

Applicants for the Graduate Artist Diploma must hold a M.Mus., D.Mus., or Graduate Performance Diploma with a Major in music, including considerable work in the area of specialization. Applicants who hold a B.Mus. can apply to enter the two-year Artist Diploma, where they will complete one year in the Graduate Diploma in Performance and continue in the Artist Diploma in year two. All diploma applicants are required to pass an audition. Applicants can attend a live audition or submit recorded material. Female voice applicants who apply for the live audition option will be required to submit screening material for pre-selection. Following a review of these materials, selected applicants will be invited to attend a live audition; see *www.mcgill.ca/music/admissions/graduate/diploma*. Specific admission and document requirements for each program are outlined at *www.mcgill.ca/music/admissions/graduate*.

D.Mus. Degree

Applicants for the D.Mus. degree in Composition must hold an M.Mus. degree in Composition, or its equivalent, and must submit scores and/or recordings of their compositions at the time of application.

Applicants for the D.Mus. degree in Performance Studies must hold an M.Mus. degree in Performance, or its equivalent, and are required to submit screening material, samples of written work, and a statement of proposed artistic research interests by the specified application deadlines. Following a review of these materials, selected applicants will be invited to attend a live audition.

Ph.D. Degree

Applicants for the Ph.D. degree in Composition must hold an M.Mus. in Composition or equivalent and must submit scores and/or recordings of their compositions at the time of application, and a written description (no more than two pages) of the research path(s) they wish to follow.

Applicants for the Ph.D. degree in Music Education, Music Technology, Musicology, Sound Recording, Music – Gender and Women's Studies, or Theory must hold a master's or a bachelor's degree equivalent to a McGill degree in Music Technology, Music Education, Musicology, Theory, or Sound Recording. Applicants with a bachelor's degree will normally be admitted to the M.A. program for the first year and may apply for admittance to the Ph.D. program after the completion of one full year of graduate coursework. Qualified applicants who have already completed an appropriate master's degree will be admitted to the second year of the Ph.D. program.

12.12.1.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* for detailed application procedures. Please also consult for detailed application procedures and document requirements.

12.12.1.3.2.1 Additional Requirements

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

- $70.41 audition fee for Performance degrees

12.12.1.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 1	Dec. 1	Dec. 1
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

12.12.1.4 Schulich School of Music Faculty

Dean, Schulich School of Music

Brenda Ravenscroft

Associate Dean, Graduate Studies

Lena Weman

Chairs

Stéphane Lemelin – *Department of Performance*

Chris Paul Harman – *Department of Music Research*

Associate Dean (Research and Administration)

Lloyd Whitesell

Associate Dean (Academic and Student Affairs)

Douglas McNabney

Professors

David Brackett; B.A.(Calif.-Santa Cruz), M.M.(NEC), D.M.A.(Cornell)

William Caplin; B.M.(USC), M.A., Ph.D.(Chic.) (*James McGill Professor*)

Brian Cherney; B.Mus., M.Mus., Ph.D.(Tor.)

Kevin Dean; B.M.E.(Iowa), M.Mus.(Miami)

Hans-Ola Ericsson; Mus. Dir. Exam.(Royal Swedish Academy of Music), Graduate, Hochschule für Musik(Freiburg)

Kyoko Hashimoto; B.Mus.(Tokyo), Professional Studies(Juilliard)

Steven Huebner; B.A., B.Mus., L.Mus.(McG.), M.F.A., Ph.D.(Princ.) (*James McGill Professor*)

Stéphane Lemelin; B.Mus., M.Mus.(Peabody Inst.), D.M.A.(Yale)

Stephen McAdams; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris) (*Canada Research Chair*)

Brenda Ravenscroft; B.Mus.(Cape Town), M.Mus.(King's, Lond.), Ph.D.(Br. Col.)

John Rea; B.Mus.(Wayne), M.Mus.(Tor.), M.F.A., Ph.D.(Princ.)

Professors

Peter Schubert; B.A., M.A., Ph.D.(Col.)

Marcelo Wanderley; B.Eng.(Federal Univ. of Paraná), M.Eng.(Federal Univ. of Santa Catarina), Ph.D.(Paris VI & IRCAM) (*William Dawson Scholar*)

Wieslaw Woszczyk; M.A., Ph.D.(F. Chopin Academy of Music, Warsaw) (*James McGill Professor*)

Associate Professors

Stefano Algieri; B.Mus., M.Mus.(Manhattan School of Music)

Lisa Barg; B.A.(Antioch), M.A., Ph.D.(SUNY Stony Brook)

Theodore Baskin; B.Mus.(Curtis), M.Mus.(Auck.), Principal Oboe, Montreal Symphony

L2nrsF Baam ntre B.M

Adjunct Professors

Marc-Pierre Verge; B.A., M.Sc.(Laval), Ph.D.(Eiden.)

Jérémie Voix; M.Sc.A.(Sher.), Ph.D.(ÉTS)

Faculty Lecturer

Hélène Boucher; B.Mus.(Laval), M.Mus.(Montr.), Ph.D.(McG.)

12.12.1.5 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.

12.12.1.6 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

12.12.1.7 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.

12.12.1.8 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

12.12.1.9 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
	(3)	Seminar in Musicology 5

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.

Master of Arts (M.A.) Music: Theory (Thesis) (45 credits)v

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

12.12.1.12 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.

12.12.1.13 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.

12.12.1.14 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

12.12.1.15 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

12.12.1.16 Master of Music (M.Mus.) Performance: Jazz Performance (Thesis) (45 credits)

Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUJZ 187	(3)	Jazz History Survey
MUJZ 440	(2)	Advanced Jazz Composition 1
MUJZ 441	(2)	Advanced Jazz Composition 2
MUJZ 461D1	(2)	Advanced Jazz Arranging
MUJZ 461D2	(2)	Advanced Jazz Arranging
MUJZ 493	(3)	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 (33 credits)

33 credits from one of the following streams:

Stream A - Jazz Performance

3 credits from:

MUPG 695	(3)	Graduate Jazz Improvisation Seminar

22 credits from:

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUPG 651	(9)	Performance/Composition Recital Project
MUPG 659	(9)	Performance in Recording Media

3 credits of graduate seminar courses at the 600-level, approved by the Department.

5 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572D1/D2 Free Improvisation 2 (1 credit) can be substituted for 1 credit of JAZZ ensemble.

Stream B - Jazz Composition and Arranging

22 credits from:

MUJZ 640	(2)	Jazz Composition & Arranging 1

MUJZ 641	(2)	Jazz Composition & Arranging 2
MUPG 652	(9)	Jazz Ensemble Recital Project
MUPG 659	(9)	Performance in Recording Media

6 credits of graduate seminar courses, at the 600-level, approved by the Department.

5 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles.) MUPG 572D1/D2 Free Improvisation 2 (1 credit) can be substituted for 1 credit of JAZZ ensemble.

Stream C - Jazz Orchestra

4 credits from:

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUJZ 644	(2)	Jazz Repertoire Project 1
MUJZ 645	(2)	Jazz Repertoire Project 2

18 credits from:

MUPG 651	(9)	Performance/Composition Recital Project
MUPG 652	(9)	Jazz Ensemble Recital Project

3 credits of graduate seminars at the 600 level, approved by the Department.

8 credits of ensemble courses, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572D1/D2 can be substituted for 1 credit of Jazz ensemble.

12.12.1.17 Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

Voice, Baroque Flute, Recorder, Baroque Oboe, Baroque Bassoon, Baroque Violin, Baroque Viola, Baroque Cello, Early Music Clarinet, Viola da Gamba, Organ, Harpsichord, Lute, Early Brass, Fortepiano

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses on the basis of transcript review:

MUPD 560	(1)	Introduction to Research Methods in Music

3 credits from the following:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUPP 381	(3)	Topics in Performance Practice
		Topics in Early Music Analysis

Fortepiano students:

MUHL 366	(3)	The Era of the Fortepiano

Harpsichord students:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Organ/Lute students:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo

Voice students:

Italian Diction

** 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 575D1**	(1.5)	Liturgical Organ Playing
MUPG 575D2**	(1.5)	Liturgical Organ Playing
MUPG 590*	(3)	Vocal Styles and Conventions
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

** May be repeated once

Complementary Performance (9 credits)

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 569	(1)	Tabla Ensemble
MUEN 572	(2)	Cappella Antica
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 696	(2)	Opera Theatre

12.12.1.18 Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

Applicants to the Performance program are e

* 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 Wind Orchestra
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 597	(2)	McGill Symphony Orchestra

Strings:

Two terms of:

MUEN 560**	(1)	Chamber Music Ensemble

1 credit of:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 569*	(1)	Tabla Ensemble
MUEN 599	(1)	Jazz Studio Orchestra
MUPG 571	(1)	Free Improvisation 1
MUPG 572D1	(.5)	Free Improvisation 2
MUPG 572D2	(.5)	Free Improvisation 2

MUPG 572D2	(.5)	Free Improvisation 2

OR

Guitar:

Three terms of:

MUEN 562	(1)	Guitar Ensemble

6 credits from the following:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560**	(1)	Chamber Music Ensemble
MUEN 561**	(1)	2nd Chamber Music Ensemble
MUEN 568**	(1)	Multiple Ensemble 1
MUEN 569**	(1)	Tabla Ensemble
MUPG 571	(1)	Free Improvisation 1
MUPG 572D1	(.5)	Free Improvisation 2
MUPG 572D2	(.5)	Free Improvisation 2
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.

12.12.1.19 Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equi

Thesis Performance (27 credits)

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622**	(3)	Performance Tutorial 3
MUIN 622D1**	(1.5)	Performance Tutorial 3
MUIN 622D2**	(1.5)	Performance Tutorial 3
MUPG 600*	(9)	Recital Project 1
MUPG 653*	(9)	Opera Coach Project

* Students may take MUPG 653 or MUPG 600.

** Students may take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from the following:

MUPG 601*	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 614	(3)	Quick Study
MUPG 653*	(9)	Opera Coach Project
MUPG 654	(6)	Opera Coach Performance

* Students may take either MUPG 653 (if not already taken) or MUPG 601 (if MUPG 600 not already taken).

Required Courses (3 credits)

MUGS 605	(0)	Graduate Performance Colloquium
MUPG 687	(1)	Collaborative Piano Repertoire 1: Song
MUPG 688	(1)	Collaborative Piano Repertoire 2: Instrumental
MUPG 689	(1)	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

Complementary Seminars (9 credits)

3 credits from the following:

MUPG 590	(3)	Vocal Styles and Conventions
MUPG 691	(3)	Vocal Ornamentation
MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approved by the Department.

Complementary Performance (6 credits)

Two terms of:

MUEN 584	(1)	Studio Accompanying

4 credits from the following (may be repeated unless otherwise noted):

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 561	(1)	2nd Chamber Music Ensemble
MUEN 569	(1)	Tabla Ensemble
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 584	(1)	Studio Accompanying
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.

12.12.1.20 Master of Music (M.Mus.) Performance: Piano (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisite may be assigned as an additional required course on the basis of transcript review:

MUPD 560 - Intro to Research Methods in Music

Thesis Performance (27 credits)

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622*	(3)	Performance Tutorial 3
MUIN 622D1*	(1.5)	Performance Tutorial 3
MUIN 622D2*	(1.5)	Performance Tutorial 3
MUPG 600	(9)	Recital Project 1

* Students may take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from the following:

MUPG 601*	(9)	Recital Project 2
MUPG 602*	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 604	(6)	Chamber Music Recital
MUPG 605	(3)	Recording Project
MUPG 606**	(3)	Interdisciplinary Project 1

MUPG 607**	(6)	Interdisciplinary Project 2

* 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 28e.PG 684

MUEN 560	(1)	Chamber Music Ensemble
MUEN 561	(1)	2nd Chamber Music Ensemble
MUEN 568	(1)	Multiple Ensemble 1
MUEN 569	(1)	Tabla Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 582	(1)	Piano Ensembles
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass
MUEN 588	(1)	Multiple Ensemble 2
MUEN 590	(2)	McGill Wind Orchestra
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 597	(2)	McGill Symphony Orchestra
MUEN 688	(2)	Multiple Ensembles

12.12.1.21 Master of Music (M.Mus.) Performance: Organ and Church Music (Thesis) (45 credits)

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The following program prerequisites may be assigned as additional required courses based on transcript review:

MUPD 560	(1)	Introduction to Research Methods in Music
MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo

Thesis Performance (27 credits)

18 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622*	(3)	Performance Tutorial 3
MUIN 622D1*	(1.5)	Performance Tutorial 3
MUIN 622D2*	(1.5)	Performance Tutorial 3
MUPG 600	(9)	Recital Project 1

* Students can take MUIN 622 or MUIN 622D1 and MUIN 622D2.

9 credits from:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 607	(6)	Interdisciplinary Project 2
MUPG 676	(9)	Special Project in Church Music

Required Course

MUGS 605	(0)	Graduate Performance Colloquium

Complementary Seminars (9 credits)

3 credits from the following:

MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

One approved graduate 3-credit seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

3 credits from the following:

MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUTH 602	(3)	Keyboard Modal Counterpoint
MUTH 604	(3)	Keyboard Tonal Counterpoint

or one graduate 3-credit seminar approved by the Department.

Complementary Performance (9 credits)

9 credits from the following:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
	(1)	Chamber Music Ensemble

12.12.1.22 Master of Music (M.Mus.) Performance: Conducting (Thesis) (45 credits)

Instrumental and Choral

Applicants to the Performance program are expected to have a background in Music Theory equivalent to the B.Mus. in Performance. Applicants found to be deficient in their background preparation may be required to take certain additional music theory undergraduate courses.

The follo

Complementary Courses (15 credits)

Seminars:

3 credits from the following:

MUPP 690	(3)	Performance Practice Seminar 1
MUPP 691	(3)	Performance Practice Seminar 2
MUPP 692	(3)	Performance Practice Seminar 3
MUPP 693	(3)	Performance Practice Seminar 4
MUPP 694	(3)	Performance Practice Seminar 5
MUPP 695	(3)	Performance Practice Seminar 6

3 credits of a graduate seminar with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP, or MUTH.

One additional graduate 3-credit seminar approv

MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

Thesis Courses (27 credits)

9 credits:

MUIN 620	(3)	Performance Tutorial 1
MUIN 621	(3)	Performance Tutorial 2
MUIN 622*	(3)	Performance Tutorial 3
MUIN 622D1*	(1.5)	Performance Tutorial 3
MUIN 622D2*	(1.5)	Performance Tutorial 3

And

Opera Performance Thesis (18 credits)

9 credits:

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	(1)	Opera Theatre

2 credits of:

MUEN 696	(1)	Opera Theatre

OR

Two terms of:

MUEN 579	(1)	Song Interpretation 2

Or

Voice:

6 credits from (may be taken more than once):

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 553	(1)	Vocal Chamber Ensemble
MUEN 554	(2)	Opera Excerpts
MUEN 560	(1)	Chamber Music Ensemble
MUEN 572	(2)	Cappella Antica
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 696	(1)	Opera Theatre

12.12.1.24 Graduate Certificate (Gr. Cert.) Performance Choral Conducting (15 credits)

** NEW PROGRAM **

The Graduate Certificate in Performance - Choral Conducting is designed for choral conductors wishing to perfect their technical, pedagogical, and musical skills. This flexible program allows conductors to develop their craft while maintaining their professional activities. The program includes group tutorial instruction in conducting, ensemble participation, and complementary courses offering the opportunity to focus on conducting technique, rehearsal pedagogy, or performance practice. Enrollment is limited.

Required Courses (8 credits)

MUIN 637	(3)	Graduate Certificate Conducting Tutorial 1
MUPD 560	(1)	Introduction to Research Methods in Music
MUPG 648	(4)	Graduate Certificate Conducting Project

Complementary Courses (7 credits)

4 credits from the following:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 593	(2)	Choral Ensembles

3 credits from the following:

MUIN 638	(3)	Graduate Certificate Conducting Tutorial 2
MUPG 580*	(1.5)	Rehearsal Techniques for Conductors
MUPG 677	(3)	Seminar in Performance Topics 1
MUPG 678	(3)	Seminar in Performance Topics 2
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

* If this course is chosen, it must be taken for two terms (for 3 credits).

12.12.1.25 Graduate Diploma (Gr. Dip.) Performance (30 credits)

A one-year graduate performance diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloist, opera singers, collaborative pianists, chamber, jazz and orchestral musicians or for further graduate studies in performance. Flexible program requirements, with range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or M.Mus.

Pre-requisite Courses

Harpsichord:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Required Courses (16 credits)

MUIN 634	(8)	Graduate Diploma Tutorial 1
MUIN 635	(8)	Graduate Diploma Tutorial 2

Complementary Courses (14 credits)

8 credits from the following:

MUPG 640	(4)	Graduate Diploma Performance Project 1
MUPG 641	(4)	Graduate Diploma Performance Project 2
MUPG 642	(8)	Graduate Diploma Performance Project 3
MUPG 643	(4)	Graduate Diploma Interdisciplinary Project
MUPG 644	(4)	Graduate Diploma Concerto Performance
MUPG 645	(4)	Graduate Diploma Recording Project

6 credits of Performance courses with departmental approval from:

Any ensemble course with the prefix MUEN at the 500 or 600 level.

MUPG 571*	(1)	Free Improvisation 1
MUPG 572D1**	(.5)	Free Improvisation 2
MUPG 572D2**	(.5)	Free Improvisation 2

* may only be taken once (not open to Jazz students)

** may only be taken once

and the additional courses from the following list for these areas:

Voice

MUIN 610*	(1)	Vocal Coaching 1
MUIN 611*	(1)	Vocal Coaching 2
MUPG 590**	(3)	Vocal Styles and Conventions

* may be taken only once per diploma

** if not already taken

Piano

MUPG 670*	(2)	Advanced Continuo 1
		Advanced Continuo 2

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Required Courses (16 credits)

MUIN 710	(8)	Graduate Artist Diploma Tutorial 1
MUIN 711	(8)	Graduate Artist Diploma Tutorial 2

Complementary Courses (14 credits)

8 credits from the following:

MUPG 740	(4)	Graduate Artist Diploma Performance Project 1
MUPG 741	(4)	Graduate Artist Diploma Performance Project 2
MUPG 742	(8)	Graduate Artist Diploma Performance Project 3
MUPG 7450tm(MUPG 7450t	(4)(MUPG 7450tm	Graduate Artist Diploma Interdisciplinary Project (MUPr Tmte)Tj1 0 0 1 253.216 499.582 Tm(APr Tmte)Tjma Interdiscipl1 0certo Project 3)T165.864 499.582 Tm(Pr

* if not already taken.

** may be repeated with permission of the instructor.

Chamber Music

(1. Practical Instruction 1

12.12.1.28 Doctor of Music (D.Mus.) Music: Performance Studies

A minimum of two years' residence is required beyond the M.Mus. in Performance, or its equivalent.

Details concerning the comprehensive examinations, composition performance, thesis and academic regulations are available from the Graduate Studies website (http://www.mcgill.ca/music).

Thesis

Recitals (36 credits)

MUPG 760	(12)	Doctoral Recital 1
MUPG 767	(12)	Doctoral Recital 2
MUPG 771	(12)	Doctoral Final Project

Required Courses (27 credits)

MUGS 701	(0)	Comprehensive Examinations
MUGS 711	(0)	Performance Doctoral Colloquium 1
MUGS 712	(0)	Performance Doctoral Colloquium 2
MUPD 650	(3)	Research Methods in Music

Performance Tutorials

one hour per week.

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

one and a half (1.5) hours per week

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

Complementary Courses

9-17 credits

9 credits at the 500 level or higher

12.12.1.29 Doctor of Philosophy (Ph.D.) Music (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

(Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

The Ph.D. requires a minimum of three years of full-time resident study (six full-time terms) be

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

0-6 credits (for Music Theory students who have not completed these or equivalent courses) from:

MUTH 658	(3)	History of Music Theory 1
MUTH 659	(3)	History of Music Theory 2

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.

12.12.1.30 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) 0

WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Comprehensive examination

MUGS 701	(0)	Comprehensive Examinations
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)

12-27 credits

13.2.3 Graduate and Postdoctoral Studies' Mission

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

13.3 Important Dates

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

13.4 Graduate Studies at a Glance

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

13.5 Program Requirements

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

- Master's Degrees
- Doctoral Re

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, P**

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

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

5. Responsibilities

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

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

iii. Each academic unit should assess the availability of research supervision facilities, office space, and research funding before recruiti0 1u-e unit.

13.10 Graduate Student Services and Information

Graduate students are encouraged to refer to *section 1.7: Student Services and Information* for information on the following topics:

- Service Point
- Student Rights & Responsibilities
- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

13.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

13.12.1 Nursing

13.12.1.1 Location

Note: The Ingram School of Nursing has moved to 680 Sherbrooke Street West as of August 2017. For more information, see the *School's website*.

Ingram School of Nursing
680 Sherbrooke West, Suite 1800
Montreal QC H3A 2M7
Canada
Telephone: 514-398-4144
Fax: 514-398-8455
Website: *www.mcgill.ca/nursing*

13.12.1.2 About Nursing

The Ingram School of Nursing is a professional School within the Faculty of Medicine that has been educating nurses since 1920. On September 10, 2012 the School was formally renamed the Ingram School of Nursing in recognition of Richard and Satoko Ingram and their exceptional support for Nursing at McGill. The School is internationally recognized for its distinctive vision, leadership in nursing, and the quality of its programs. McGill nursing graduates have earned a reputation as outstanding clinicians, educators, researchers, and leaders in their discipline.

Recently, the Ingram School of Nursing adopted Strengths-Based Nursing (SBN) as its foundation for practice, education, and research. SBN is a culmination of an approach to nursing that has been an integral part of the McGill School of Nursing since its founding in 1920, evolving from the McGill Model of Nursing. SBN is both a philosophy as well as a value-driven approach that has as its foundational pillars in person/family-centred care, empowerment, relational care, and innate and acquired healing.

At the graduate level, the Ingram School of Nursing offers tailored programs in advanced nursing practice that prepare our students to be leaders in their field. The learning experience at the School is geared to foster individual judgment, creativity, and initiative. Led by nationally recognized researchers, students will participate in cutting-edge programs of research related to nursing practice and administration. McGill's Ingram School of Nursing is for you if you want to contribute to the knowledge base of advanced nursing practice and want to be involved actively in changing how healthcare is delivered locally, nationally, and internationally.

The School and its lab moved to 680 Sherbrooke Street West in August 2017 and occupy the 18th, 19th, and 20th floors of that building. Lab size has tripled, and new simulation labs have been designed to offer students a wealth of hands-on experience. The new space also accommodates student lounges, faculty and staff offices, mid- and small-sized classrooms, and meeting rooms. Students registered in the School also take courses in other faculties within the University. Selected experience in nursing is provided in the McGill University Health Centre, other McGill-affiliated hospitals, and in a wide variety of health agencies in Montreal.

For information on undergraduate programs, please consult the Ingram School of Nursing's *Undergraduate* section.

M.Sc.A. Program and Concentrations

The Master's (Applied) in Nursing is offered in a number of formal concentrations, which are listed in the table below.

Graduate Certificates and Diplomas

Nurse applicants with a master's degree in Nursing and with the required clinical experience are prepared for nurse practitioner roles through our Graduate Certificate and/or Diploma programs. These programs offer students the necessary biomedical skills and knowledge in either Neonatology, Pediatrics, Mental Health, or Primary Care to prepare them for the next step to their career, which is the OIIQ (*Ordre des infirmières et infirmiers du Québec*) nurse practitioner licensing exam.

Doctoral Program

The Ph.D. program prepares nurses to contribute to the development of knowledge in the discipline through research and academia. Ph.D.-prepared faculty members are experts and active researchers in a wide variety of areas related to nursing practice, administration, and education.

section 13.12.1.5: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Advanced Clinical Practice (48 credits)

This concentration is open to bachelor-prepared nurse students for full-time (two-year program of study) or part-time studies (three to four years of study). The core content of the CNS concentration prepares students for advanced practice nursing roles in diverse settings and with diverse populations. Courses are designed with a Strengths-Based Nursing approach and focus on areas such as family intervention, collaborative practice, and working with family strengths and resources. Through clinical courses, students engage in advanced clinical assessments and interventions, and develop greater capacities to reflect purposefully and in-depth on their nursing practice. Research methods, systematic study of clinically-based nursing problems, and dissemination of knowledge relevant to clinical practice are all developed within this program of study.

section 13.12.1.6: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Direct Entry Nursing (58 credits)

The Direct Entry Nursing concentration remains the only one of its kind in Canada. This three-year program is tailored to the university graduate with a general Arts or Science degree and no previous preparation in nursing. Candidates complete entry-to-practice preparation in nursing while also completing graduate level studies. Upon completion of the M.Sc.A. Year 2, graduates are eligible to write the OIIQ (*Ordre des infirmières et infirmiers du Québec*) licensing exam. This program is accredited by the *Canadian Association of Schools of Nursing* (CASN).

section 13.12.1.7: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health (48 credits) This concentration is open to bachelor

This concentration is open to bachelor-prepared nurse students who wish to gain an in-depth understanding of issues relevant to global health practice throughout their program of study. It sets out to prepare students for the challenges of working with divsection 13.12.1.7 0 1 70.52 30o(erset b)Tj1 0 0 1 1 267.637 22t

section 13.12.1.9: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Mental Health Nurse Practitioner (45 credits)

This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Mental health nurse practitioners autonomously assess, diagnose, and treat mental health conditions that fall within their scope of practice, providing care to all age groups, in secondary and tertiary care settings. Students who successfully complete this program are eligible to apply to the Graduate Diploma Nurse Practitioner program in this specialty, which is the next step before the relevant licensing exam of the OIIQ (*Ordre des infirmières et infirmiers du Québec*).

section 13.12.1.10: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Neonatology Nurse Practitioner (45 credits)

This concentration is open to bachelor-prepared nurses and is designed to prepare them to take on this advanced practice role. Neonatal nurse practitioners autonomously assess, diagnose, and treat pediatric health conditions that fall within their scope of practice, providing care to neonates and their families

section 13.12.1.18: Graduate Diploma (Gr. Dip.) Mental Health Nurse Practitioner (30 credits)

sciences through their application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the mental health nurse practitioner licensing exam.

section 13.12.1.19: Graduate Diploma (Gr. Dip.) Neonatal Nurse Practitioner (30 credits)

This diploma is open to graduates of the Neonatal Nurse Practitioner M.Sc.A. or the Neonatal Graduate Certificate. In this final step of preparation for taking on the Neonatal NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the neonatal nurse practitioner licensing exam.

section 13.12.1.20: Graduate Diploma (Gr. Dip.) Pediatric Nurse Practitioner (30 credits)

This diploma is open to graduates of the Pediatric Nurse Practitioner M.Sc.A. or the Pediatric Graduate Certificate. In this final step of preparation for taking on the Pediatric NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the pediatric nurse practitioner licensing exam.

section 13.12.1.21: Graduate Diploma (Gr. Dip.) Primary Care Nurse Practitioner (30 credits)

This diploma is open to graduates of the Primary Care Nurse Practitioner M.Sc.A. or the Primary Care Graduate Certificate. In this final step of preparation for taking on the Primary Care NP (nurse practitioner) role, students have the opportunity to consolidate their knowledge of the biomedical sciences through its application to clinical practice. Upon successful completion of the diploma, candidates will be eligible to write the primary care nurse practitioner licensing exam.

section 13.12.1.22: Doctor of Philosophy (Ph.D.) Nursing

The Ingram School of Nursing of McGill University offers a doctorate program leading to a Ph.D. in Nursing. The program trains nurse scientists who will make a contribution to the advancement of knowledge in the discipline of nursing and assume a leadership role both in the profession and in the health care system. The program is open to nurses with either an undergraduate or graduate degree in Nursing, or students who have completed a 2-year master's program in Nursing or a related field.

section 13.12.1.23: Doctor of Philosophy (Ph.D.) Nursing: Psychosocial Oncology

The Psychosocial Oncology option is currently not offered.

13.12.1.3 Nursing Admission Requirements and Application Procedures

13.12.1.3.1 Admission Requirements

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Nurse applicants whose previous nursing degree(s) was completed outside of Canada are required to have at least one year of experience as nurses in their country of origin, in addition to one year of experience as nurses in Canada or the United States.

Nurse applicants to the *section 13.12.1.10: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Neonatology Nurse Practitioner (45 credits)* program must have a minimum of two years' experience in neonatology in a level 3 unit.

All applicants to the nursing Master's, Graduate Certificates, Graduate Diplomas and Ph.D. programs should consult the *Ingram School of Nursing website* for more information on admission requirements and application processes.

B.A./B.Sc. Applicants to the Master's Program (Direct Entry – DE)

Upon successful completion of the Qualifying year, candidates must apply to the master’s program. The applicant's undergraduate record must meet the minimum general requirements of Graduate and Postdoctoral Studies, which includes a minimum cumulative grade point average of 3.0 on a 4.0 scale, or a high 'B' standing in under

Any student who is experiencing difficulty in meeting course requirements must take advantage of academic services that McGill offers. Information is available at *www.mcgill.ca/firstyear/undergraduate/your-first-year*. Further information on services available to students is at *University Regulations &*

13.12.1.3.4 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term: • Qualifying for the M.Sc.A. Nursing	Sept. 15	Jan. 1 (N/A for Special, Visiting & Exchange)	Feb. 1	Feb. 1
Fall Term: • M.Sc.A. Nursing – all concentrations	Sept. 15	N/A	Feb. 1	Feb. 1
Fall Term: • Ph.D. Nursing	Sept. 15	Jan. 1	Mar. 1	Mar. 1
Winter Term: • M.Sc.A. Nurse Bachelor Entry, part-time studies in all concentrations (*except* Global Health and Nurse Practitioner) **must** contact the Graduate Admissions Coordinator prior to applying	Feb. 15	N/A	Sept. 30	Sept. 30
Winter Term: • Ph.D. Nursing	Feb. 15	Aug. 1	Nov. 1	Nov. 1
Winter Term: • Graduate Certificates in Pediatrics, Mental Health, and Primary Care (pending completion of Special Term)	Feb. 15	N/A	Sept. 30	Sept. 30
Summer Term: • Graduate Diploma – all programs • Graduate Certificate in Neonatology	May 15	N/A	Jan. 15	Jan. 15

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

13.12.1.4 Nursing Faculty

Vice-Principal (Health Affairs) and Dean of the Faculty of Medicine

David H. Eidelman; M.D.,C.M.(McG.), FRCPC, FACP

Associate Dean (Medicine) and Director, Ingram School of Nursing

Anita Gagnon; N., B.Sc.(N.)(Catholic Univ. of America), M.P.H.(Johns Hop.), Ph.D.(McG.)

Associate Director, Ingram School of Nursing – Undergraduate and Entry-to-Practice Educational Programs

Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Associate Director, Ingram School of Nursing – Graduate and Online Educational Programs

Susan Drouin; N., B.Sc.(N.)(New Br.), M.Sc.A.(McG.), D.Soc.Sci.(R. Roads)

B.N. (Integrated) Program Director, Ingram School of Nursing

Annie Chevrier; N., B.N.I., M.Sc.A.(McG.)

B.N. (Integrated) Assistant Program Director, Ingram School of Nursing

Mélanie Gauthier; N., B.Sc.(N.)(McG.), M.N.(Syd.)

B.Sc.(N.) Program Director, Ingram School of Nursing

Madeleine M. Buck; N., B.Sc.(N.), M.Sc.A.(McG.)

B.Sc.(N.) Assistant Program Director, Ingram School of Nursing

Rosalia Sanzone; N., B.Sc.(N.), M.Sc.A.(McG.)

Graduate Program Director, Ingram School of Nursing

Antonia Arnaert, N., Ph.D.(KU Leuven)

Assistant Graduate Program Director, Ingram School of Nursing

Maria Di Feo; N., B.Sc.(N.)(Montr.), M.Ed.(McG.)

Ph.D. Program Director, Ingram School of Nursing

Sonia Semenic; N., B.A., M.Sc.A., Ph.D.(McG.), Post Doc.(Ott.)

Assistant Ph.D. Program Director, Ingram School of Nursing

Céline Gélinas; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(McG.)

Associate Director of Research, Ingram School of Nursing

Carmen G. Loiselle, N., B.Sc.(N.), Ph.D.(Wisc.-Madison)

Emeritus Professors

Susan E. French; N., B.N.(McG.), M.S.(Boston), Ph.D.(Tor.), Ph.D.(McM.)

C. Céleste Johnston; N., B.N., M.S.(Boston), D.Ed.(McG.)

Judith Ann Ritchie; N., B.N.(New Br.), M.N., Ph.D.(Pitt.)

Professors

Franco Carnevale; N., B.Sc.(N.), M.Sc.A., M.Ed., Ph.D.(McG.), Ph.D.(Laval)

Anita J. Gagnon; N., B.Sc.(N.)(Catholic Univ. of America), M.P.H.(Johns Hop.), Ph.D.(McG.)

Laurie N. Gottlieb; N., B.N., M.Sc.A., Ph.D.(McG.) (*Shaw Professor of Nursing*)

Carmen G. Loiselle; N., B.Sc.(N.)(Montr.), M.S., Ph.D.(Wisc.-Madison)

Associate Professors

Antonia Arnaert; N., M.P.H.(Catholic U. of Leuven, K.U.L.), M.P.A.(EHSAL), Ph.D.(K.U.L.)

Madeleine M. Buck; N., B.Sc.(N.), M.Sc.A.(McG.)

Susan Drouin; N., B.N.(New Br.), M.Sc.A.(McG.), M.A., D.Soc.Sci.(R. Roads)

Nancy Feeley; N., B.Sc.(N.), M.Sc.A., Ph.D.(McG.)

Céline Gélinas; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(McG.)

Mélanie Lavoie-Tremblay; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Laval), Post Doc.(Tor.)

Christine Maheu; N., B.Sc.(N.), M.Sc.(Montr.), Ph.D.(INSERM), Post Doc.(Br. Col.)

Frederick Nestel; B.Sc.(McG.), M.Sc.(Qu.), Ph.D.(McG.)

Margaret Purden; N., B.Sc.(N.), Ph.D.(McG.)

Associate Professors

Sonia Semenic; N., B.A., M.Sc.A., Ph.D.(McG.), Post Doc.(Ott.)

Assistant Professors

Elaine Doucette; N., B.Sc.(C'dia), B.Sc.(N.), M.Sc.(N.)(Ott.)

Françoise Filion; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Catherine P. Gros; N., B.Sc.(Mass.), M.Sc.A.(McG.)

Heather D. Hart; N., B.Sc.(N.)(W. Ont.), B.Ed.(Bran.), M.Sc.A.(McG.)

Sylvie Lambert; N., B.Sc.(N.), Ph.D.(McG.), Post Doc.(Newcastle, Australia)

Yannick Mélançon-Laître; N., B.N.(UQAT), M.Sc.A., Grad.Dip.(NP-PC)(McG.)

Marjorie Montreuil; N., Ph.D.(McG.)

Norma Ponzoni; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Montr.)

John Pringle; NP., M.Sc.(Epidemiology)(Qu.); Ph.D.(Tor.)

Rosalia Sanzone; N., B.Sc.(N.), M.Sc.A.(McG.)

Argerie Tsimicalis; N., B.Sc.(N.)(Windsor), M.Sc.(Qu.), Ph.D.(Tor.), Post Doc.(Col.)

Andraea Van Hulst; N., Ph.D.(Montr.)

Faculty Lecturers

Rosetta Antonacci; N., M.Sc.(Admin.)(Laval)

Cheryl Armistead; N., B.Sc.(N.), M.Sc.(N.)(Ott.)

Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Amanda Cervantes; N., B.F.A.(NYU), M.Sc.A.(McG.)

Annie Chevrier; N., B.N.(I.), M.Sc.A.(McG.)

Diana Gausden; N., SCPHN(Southbank Univ., Lond.)

Melanie Gauthier; N., B.Sc.(N.)(McG.), M.N.(Syd.)

Oxana Kapoustina; N., B.Sc., M.Sc.A.(McG.)

Sandie Larouche; N., B.Sc.(N.)(Laval), M.Sc.A.(McG.)

Caroline Marchionni; N., B.Sc.(McG.), M.Sc.(John M.), M.Sc.A.(McG.)

Linda Masse; N., B.Sc.(N.)(Montr.), M.Sc.A.(McG.)

Catherine-Anne Miller; N., B.Sc.(N.)(McG.), M.H.Sc.(Health Promotion & Global Health)(Tor.)

Linda Morneault; N., B.Sc.(N.)(McG.), M.Sc.(SUNY)

Irene Sarasua; N., B.A.(Tor.), M.Sc.A.(McG.)

Jodi Tuck; N., B.Sc.(McM.), M.Sc.A.(McG.)

Academic Associates

Katherine Logue; N., B.Sc., M.Sc.A.(McG.)

Hugo Marchand; N., B.N.(I.)(McG.)

Elizabeth Marie Claire Murphy-Lavallée

Louise Murray; N., B.Sc., M.Sc.N.(Montr.)

Amelie Samson; N., B.N.(I.)(Sher.)

Contracted Faculty (part-time)

Karine Allard

Jorge Manuel Antonio

William Archambault, B.Sc.(McG.), M.Sc.(Montr.)

Contracted Faculty (part-time)

Magdalena Arciszewska, B.Sc.(N.)(McG.)

Geneveave Barbo

Angela Barrett

Valerie Beaudoin

Amanda Berghello, B.Sc.(N.)(McG.)

Alain Biron; N., B.Sc.(McG.), M.Sc.(N.)(Montr.), Ph.D.(McG.)

V

Faculty Lecturers

Deborah Abner, Nathalie Aubin, Sophie Baillargeon, Denise Bédard, Jacqueline Bocking, Johanne Boileau, Linda P. Boisvert, Diane Borisov, Rose Boyle, Sandra Bradford-Macalanda, Diane Brault, Sharon Brissette, Carolyn Brown, Susan Marie Buddo, Sonia Castiglione, Sophie Charland, Luisa Ciofani, Christina Clausen, Martine Claveau, Erin Lillian Cook, Hermes Cornejo, Joann Creager, Esther Dajczman, Julie Dallaire, Rose Deangelis, Rosalie Dion, Nancy Drummond, Julie Fréchette, Maryse Godin, Iris Gourdji, Cynthia Graham-Certosini, Maria Hamakiotis, Norine M. Heywood, T

Other Teaching Centres

CSSS Pointe de l'île

CSSS St. Leonard-St. Michel

CSSS Sud Ouest Verdun (CLSC St. Henri, CLSC Verdun, CLSC Ville Emard-Côte St. Paul, Hôpital Verdun)

Jewish Rehabilitation Hospital

Kateri Memorial Hospital

Manoir Westmount

Salvation Army Montclair Residence

Shriner's Hospital for Children

Tulattavik Health Centre Kuujjuaq

Ukrainian Villa

Vista Residence

Waldorf Residence

Welcome Hall Mission

West Island Palliative Care Residence

International Sites

A range of international placement sites is collated by the Clinical Placement Coordinators.

Directors of Nursing Research in Teaching Hospitals

MUHC – Chantal Souligny

Jewish General Hospital – Margaret Purden

13.12.1.5 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Advanced Clinical Practice (48 credits)

This concentration is a two-year program. Part-time studies over three to five years are also an option for students. The core content of the Advanced Clinical Practice concentration prepares students for advanced practice nursing roles in diverse settings and with diverse populations. Content is organized based on the McGill Model of Nursing and focuses on such areas as family intervention, collaborative practice, and working with family strengths and resources. Through clinical courses, students engage in advanced clinical assessments and interventions and dev

Any 500-level course or higher in consultation with the Adviser for this concentration.

13.12.1.6 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Direct Entry Nursing (58 credits)

The Master of Science, Applied; Nursing (Non-Thesis) - Direct Entry Nursing Concentration, established in 1974, remains the only one of its kind in Canada. This three-year program is tailored to the university graduate with a general degree and no previous preparation in nursing or other health care professions. Candidates complete entry-to-practice preparation in nursing while also completing graduate-level studies in nursing. Students must first successfully complete a 10-month, 41-credit Qualifying year (QY) of study before applying to the M.Sc.A. in Nursing; Non-Thesis - Direct-Entry Year I (29 credits) and Year II (26 credits). By the end of M.Sc.A. Year I, students are eligible to practice as nursing externs during the summer break, in accordance with the regulations of the Ordre des infirmières et infirmiers du Québec (OIIQ) (i.e., the Quebec Order of Nurses – the provincial licensing board). Upon completion of M.Sc.A. Year II, graduates are eligible to write the OIIQ exams.

Required Courses

IPEA 502	(0)	Patient-Centred Care in Action
NUR2 515	(3)	Applied Statistics for Nursing
NUR2 516	(3)	Perspectives on Global Health
NUR2 607	(3)	Children's Nursing
NUR2 609	(3)	Nursing Care of Children and their Families

NUR2 626	(3)	Professional Issues in Nursing
NUR2 630	(3)	Clinical Project 1
NUR2 631	(6)	Clinical Project 2
NUR2 632	(3)	Clinical Project 3
NUR2 636	(3)	Global Health Nursing Clinical
NUR2 640	(3)	Clinical Reasoning
NUR2 642	(3)	Ethics in Advanced Practice

Complementary Course (3 credits)

Any 500 level course or higher in consultation with the Adviser for this concentration.

13.12.1.8 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Global Health Direct Entry (58 credits)

This concentration sets out to prepare students for the challenges of working with diverse populations in limited resource environments with a philosophy stressing the importance of understanding the inherent power dynamics, equity issues, and ethical dilemmas that arise throuw dy5cf w

NUR2 608	(3)	Seminar in Nursing
NUR2 611	(3)	Policy Leadership in Nursing
	(3)	Research Methods in Nursing 1

NUR2 617	(3)	Clinical in Family Systems Nursing 1
NUR2 618	(3)	Clinical in Family Systems Nursing 2
NUR2 626	(3)	Professional Issues in Nursing
NUR2 630	(3)	Clinical Project 1
NUR2 631	(6)	Clinical Project 2
NUR2 632	(3)	Clinical Project 3
NUR2 642	(3)	Ethics in Advanced Practice

Complementary Courses (13 credits)

(0-7 Credits)

NUR2 624	(4)	Clinical Laboratory in Nursing 2
NUR2 629	(4)	Nursing Administration Stage
NUR2 720	(3)	Nursing Workforce Determinants

(6-13 Credits)

Any 500-level course or higher, including relevant School of Continuing Studies courses in the area of administration, in consultation with the Adviser for this concentration.

13.12.1.12 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Pediatric Nurse Practitioner (45 credits)

This program aims to train graduate-level nurses to take on an advanced practice role. Pediatric Nurse Practitioners assume responsibility for tasks related to physical assessment, clinical impressions, and treatment within legally sanctioned, pre-determined conditions that have traditionally been exclusive to medical practice. The Pediatric Nurse Practitioner concentration focuses on a secondary and tertiary of the pediatric population.

Required Courses (45 credits)

NUR2 515	(3)	Applied Statistics for Nursing
NUR2 608	(3)	Seminar in Nursing
NUR2 611	(3)	Policy Leadership in Nursing
NUR2 612	(3)	Research Methods in Nursing 1
NUR2 617	(3)	Clinical in Family Systems Nursing 1
NUR2 618	(3)	Clinical in Family Systems Nursing 2
NUR2 626	(3)	Professional Issues in Nursing
NUR2 642	(3)	Ethics in Advanced Practice
NUR2 645	(3)	Pharmacology for Pediatric Nurse Practitioners
NUR2 680	(3)	Reasoning in Pediatrics 1
NUR2 681	(3)	Reasoning in Pediatrics 2
NUR2 682	(4)	Reasoning in Pediatrics 3
NUR2 683	(4)	Reasoning in Pediatrics 4
NUR2 684	(4)	Reasoning in Pediatrics 5

13.12.1.13 Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Primary Care Nurse Practitioner (45 credits)

This concentration was developed in order to train graduate-level nurses to take on this advanced practice role. Primary Care Nurse Practitioners assume responsibility for tasks related to physical assessment, diagnosis, and treatment within legally sanctioned, pre-determined conditions that have traditionally been exclusive to medical practice. The Primary Care Nurse Practitioner concentration focuses on a wide range of acute and chronic health concerns across the life span.

Required Courses

NUR2 515	(3)	Applied Statistics for Nursing

NUR2 608	(3)	Seminar in Nursing
NUR2 611	(3)	Policy Leadership in Nursing
NUR2 612	(3)	Research Methods in Nursing 1
NUR2 617	(3)	Clinical in Family Systems Nursing 1
NUR2 618	(3)	Clinical in Family Systems Nursing 2
NUR2 626	(3)	Professional Issues in Nursing
		(3)

NUR2 676	(4)	Primary Care Assessment

13.12.1.22 Doctor of Philosophy (Ph.D.) Nursing

A student who has obtained a master's degree at McGill University or at an approved institution elsewhere may, on the recommendation of the School, be registered in the second year of the Ph.D. program.

Each student's program is designed with the thesis supervisor taking into account the student's previous academic preparation, needs, and research interests.

Thesis

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

Required Courses (10 credits)

NUR2 701	(1)	Comprehensive Examination
NUR2 702	(3)	Quantitative Research
NUR2 706	(3)	Qualitative Nursing Research
NUR2 730	(3)	Theory Development in Nursing

Complementary Courses

Selected courses at the 500 level or above.

Note: A minimum of 9 credits in advanced statistics, substantive, or complementary courses are planned with the thesis supervisor.

13.12.1.23 Doctor of Philosophy (Ph.D.) Nursing: Psychosocial Oncology

** This program is currently not offered **

The Ph.D. thesis topic must be germane to psychosocial oncology and approved by the P.S.O. coordinating committee.

Thesis

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

Required Courses

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

14 School of Physical and Occupational Therapy

14.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of w

14.3 Important Dates

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

14.4 Graduate Studies at a Glance

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

14.5 Program Requirements

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

- Master's Degrees
- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

14.6 Graduate Admissions and Application Procedures

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

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

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

14.7 Fellowships, Awards, and Assistantships

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

14.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Postdoctoral Research* section of this publication contains important details postdoctoral scholars will require 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 privile

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 f

14.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of a 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 whose degree/certification has not yet been awarded. An individual in this category 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. This 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. This individual will be engaged in full-time research with well-defined objectives, responsibilities, and methods of reporting. Applications must be accompanied by a letter of permission from the applicant's 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/diplomas
- The individual must have the approval of a McGill professor to supervise the research and of the Unit
- The individual must have adequate proficiency in English, but is not required to provide official proof of English competency to Enrolment Services
- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

14.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

14.10 Graduate Student Services and Information

Graduate students are encouraged to refer to *section 1.7: Student Services and Information* for information on the following topics:

- Service Point
- Student Rights & Responsibilities

- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

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

Refer to *University Regulations & Resources* > *Graduate* > *section 1.6: Research Policy and Guidelines* for information on the following:

- Regulations on Research Policy
- Regulations Concerning the Investigation of Research Misconduct
- Requirements for Research Involving Human Participants
- Policy on the Study and Care of Animals
- Policy on Intellectual Property
- Regulations Governing Conflicts of Interest
- Safety in Field Work
- Office of Sponsored Research
- Postdocs
- Research Associates

Directors

Program Director (Acting), Physical Therapy – Liliane Asseraf-Pasin; B.Sc.(P.T.), Ph.D.(McG.)

Email: *profmasters.spot@mcgill.ca*

Associate Program Director, Physical Therapy – Sabrina Figueiredo; B.Sc.(P.T.), M.Sc.(Rehab.Sc.), Ph.D.(Rehab.Sc.)(McG.)

Email: *profmasters.spot@mcgill.ca*

Program Director, Occupational Therapy – Sara Saunders; B.Sc.(O.T.), Ph.D.(McG.)

Email: *profmasters.spot@mcgill.ca*

Associate Program Director, Occupational Therapy – Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)

Email: *profmasters.spot@mcgill.ca*

Graduate Programs Director – Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Vir

section 14.12.1.9: Master of Science, Applied (M.Sc.A.OT.) Occupational Therapy (Non-Thesis) (63 credits)

The Master of Science (Applied) in Occupational Therapy program is to be completed in 1.5 years of graduate study over five semesters and includes a

- *IELTS* (International English Language Testing System) with a minimum overall band score of 6.5.

Note: McGill University's Institutional code for the TOEFL and GRE is **0935**.

M.Sc. in Rehabilitation Science (Thesis)

1. A B.Sc. degree or equivalent in Physical or Occupational Therapy or a related field from a university of recognized reputation;
2. Evidence of high academic achievement, equivalent to a B standing, or a McGill CGPA of 3.0 (70–74%);
3. Prerequisite courses may be required in statistics, anatomy, physiology, psychology, sociology, neurophysiology, or other areas, depending on the student's anticipated specialization;
4. Applicants must meet the language requirements listed above;
5. A *GRE* (Graduate Records Examination) Test is recommended for the following applicants:

    - those who do not have a B.Sc. or equivalent from a Canadian university;
    - those who have been out of university for five years or more.

    Only the GRE General Test is required.

    Applicants must ensure that official test results are sent to McGill University directly by the testing service. Applications cannot be considered if test results are not available.

If a graduate student accepted into the M.Sc. program demonstrates superior performance in the first year, the Graduate Committee, in consultation with the thesis supervisor, may recommend waiving the M.Sc. thesis requirement, and allow the student to proceed directly to the Ph.D. program.

M.Sc. in Rehabilitation Science (Non-Thesis)

1 to 5 as above; plus two years of clinical experience is recommended.

Qualifying Year for Entry into M.Sc.A.(O.T.)

1. An undergraduate degree or equivalent in any subject from a university of recognized reputation;
2. Evidence of high academic achievement in one's undergraduate degree, equivalent to a B standing, or a McGill CGPA of 3.0 (70-74%) or higher – the average accepted CGPA is 3.6;
3. No prerequisite courses; Completion of optional background courses is recommended;
4. Completion of the Canadian Professional Health Sciences CASPer Test (the CASPer test is administered by *Altus Assessments*);
5. Completion of all application components set out in the *Occupational Therapy Qualifying Year Admissions Guide*, found at *www.mcgill.ca/spot/admissions/professional-programs*;

o

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 achie

Associate Professors

Philippe Archambault; B.Sc.(O.T.)(McG.), M.Sc.A., Ph.D.(Montr.)

Patricia Belchior da Cunha; B.A.(Law), B.Sc.(O.T.)(UCDB, Brazil), Ph.D.(Flor.)

Joyce Fung; B.Sc.(P.T.)(PolyU, Hong Kong), Ph.D.(Rehab. Sc.)(McG.)

Isabelle Gagnon; B.Sc.(P.T.)(McG.), M.Sc., Ph.D.(Montr.)

Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab. Sc.)(McG.)

Matthew Hunt; B.Sc.(P.T.), M.Sc., Ph.D.(McG.)

Eva Kehayia; B.A., M.A., Ph.D.(McG.)

Anouk Lamontagne; B.Sc., M.Sc., Ph.D.(Laval)

Bernadette Nedelec; B.Sc.(O.T.), Ph.D.(Alta.)

Melissa Park; B.A.(Yale), M.A.(O.T.), Ph.D.(USC)

Shawn Robbins; B.Sc.(P.T.), M.Sc.(P.T.), Ph.D.(W. Ont.)

Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)

Jadranka Spahija; B.Sc.(P.T.), Ph.D.(McG.)

Aliki Thomas; B.Sc.(O.T.), M.Ed., Ph.D.(McG.)

Assistant Professors

Stefanie Blain-Moraes; B.A.Sc., Ph.D.(Tor.)

Marie-Hélène Boudrias; B.Sc.(P.T.)(Montr.), Ph.D.(Neuro.)(Kansas)

Marie Brossard-Racine; B.Sc.(O.T.)(Montr.), M.Sc., Ph.D.(McG.)

André Bussières; B.Sc.(N.)(Montr.), D.C., M.Sc.(UQTR)

Tania Janaudis-Ferreira; B.Sc.(P.T.)(Pontifical Cath. Univ. of Campinas), M.Sc.(P.T.), Ph.D.(P.T.)(Umea)

Raphael Lencucha; B.Sc.(Kinesiology)(Calg.), B.Sc.(O.T.)(Alta.), Ph.D.(Health Promo.)(W. Ont.)

Marc Roig Pull; M.Sc.(Nott.), Ph.D.(Br. Col.)

Laurence Roy; B.Sc.(O.T.), M.Sc.(Rehab. Sc.), Ph.D.(Rehab. Sc.)(Montr.)

Keiko Shikako-Thomas; B.Sc.(O.T.)(São Paulo), M.Sc.(Rehab. Sc.), Ph.D.(Rehab. Sc.)(McG.)

Timothy Wideman; B.Sc.(P.T.), Ph.D.(Exp. Psych.)(McG.)

Associate Professors (Professional)

Richard Preuss; B.Sc.(P.T.), M.Sc.(Wat.), Ph.D.(McG.)

Caroline Storr; B.Sc.(O.T.), M.B.A.(C'dia)

Assistant Professors (Professional)

Marie-Eve Bolduc; B.Sc.(O.T.), M.Sc.(McG.)

Noemi Dahan-Oliel; B.Sc.(O.T.), M.Sc.(O.T.), Ph.D.(O.T.)(McG.)

Sabrina Figueiredo; M.Sc., Ph.D.(McG.)

Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)

Barbara Mazer; B.Sc.(O.T.)(Qu.), M.Sc., Ph.D.(McG.)

Anita Menon; B.Sc.(O.T.), M.Sc.(McG.), Ph.D.(Tor.)

Cynthia Perlman; B.Sc.(O.T.), M.Ed.(McG.)

Sara Saunders; B.Sc.(O.T.)(Dal.), Ph.D.(McG.)

Judith Soicher; B.Sc.(P.T.), B.Sc.(L.S.), M.Sc., Ph.D.(McG.)

Adriana Venturini; B.Sc.(P.T.), M.Sc.(McG.)

Hiba Zafran; B.Sc., B.Sc.(O.T.), M.Sc., Ph.D.(McG.)

Faculty Lecturers

Liliane Asseraf-Pasin; B.Sc.(P.T.), M.Ed., Ph.D.(McG.)

Isabel Audette; B.Sc.(P.T.), M.Sc.(McG.)

Dana Benoit; B.Sc.(O.T.), M.Sc.(McG.)

Marie-Christine Beshay; B.Sc.(O.T.), M.Sc.(Post-Professional)(McG.)

Claudia Brown; B.Sc.(P.T.), M.Sc.(Rehab. Sc.)(McG.)

Karen Falcicchio; B.Sc., M.Sc.(O.T.)(McG.)

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	(2)	Promoting Healthy Activity
POTH 685	(3)	Perception and Action

14.12.1.7 Master of Science (M.Sc.) Rehabilitation Science (Non-Thesis) (45 credits)

This program has tw

POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills
POTH 682	(2)	Promoting Healthy Activity
POTH 685	(3)	Perception and Action

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OCC1 625	(3)	Functional Environments
OCC1 626	(3)	Mental Health: Child and Youth
		Selected T

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

15.2 Graduate and Postdoctoral Studies

15.2.1 Administrative Officers

Administrative Officers	
Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)	**Dean (Graduate and Postdoctoral Studies)**
Robin Beech; B.Sc.(Nott.), Ph.D.(Edin.)	**Associate Dean (Graduate and Postdoctoral Studies)**
France Bouthillier; B.Ed., C.Admin.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Lorraine Chalifour; B.Sc., Ph.D.(Manit.)	**Associate Dean (Graduate and Postdoctoral Studies)**
Elisa Pylkkanen; B.A., M.A.(McG.)	**Director (Graduate and Postdoctoral Studies)**

15.2.2 Location

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

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

15.6 Graduate Admissions and Application Procedures

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

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

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

15.7 Fellowships, Awards, and Assistantships

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

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 postdoctoral scholars will require 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 re

and Supervisors—available at *www.mcgill.ca/gps/postdocs/fellows/responsibilities*). This should stipulate, for example, the purpose of the postdoctoral appointment (research training and the advancement of knowledge), the duration of the fellowship/financial support, the modality of pay, the work space, travel funds, and expectations and compensation for teaching and student research supervision. Leaves from postdoctoral education must comply with the Graduate and Postdoctoral Studies Policies for Vacation, Parental/Familial, and Health Leave (see *section 2.8.3: Vacation Policy for Graduate Students and Postdocs* and *University Regulations & Resources* > *Graduate* > *Regulations* > *Categories of Students* > *section 1.2.8: Leave of Absence Status*). Any breach of these conditions may result in grievance procedures or the termination of the postdoctoral appointment.

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

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

4. Privileges

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

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

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

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

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

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

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

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

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

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

5. Responsibilities

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

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

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

iv. Some examples of responsibilities of the department are:

- to verify the Postdoc's eligibility period for registration;
- to provide Postdocs with departmental policy and procedures that pertain to them;
- to oversee the registration and appointment of Postdocs;
- to assign departmental personnel (e.g., Postdoc coordinator and Graduate Program Director) the responsibility for Postdocs;
- to oversee athlwi RG/.ruto vges oLege rrtment of

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

vii. Some examples of the responsibilities of the University are:

- to register Postdocs;
- to provide an appeal mechanism in cases of conflict;
- to provide documented policies and procedures to Postdocs;
- to provide Postdocs with the necessary information on McGill University student services.

Approved by Senate, April 2000; revised May 2014

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 *University Regulations & Resources* > *Graduate* > *section 1.2.8: Leave of Absence Status*).

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

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

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/diplomas
- 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, b

- Research Associates

15.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2019–2020 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

15.12.1 Atmospheric and Oceanic Sciences

15.12.1.1 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: *info.aos@mcgill.ca*; graduate studies: *graduateinfo.aos@mcgill.ca*
Website: *www.mcgill.ca/meteo*

15.12.1.2 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, c453l5ry

section 15.12.1.6: Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis): Environment (45 credits)

This program is currently not offered.

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking.

Students following the Environment option must first be accepted by the Department of Atmospheric and Oceanic Sciences, and then by the *McGill School of Environment* (MSE) before an offer of admission will be made by the University. Environment option students require either a single supervisor with a joint appointment in Atmospheric and Oceanic Sciences and the MSE, or co-supervisors, one each in Atmospheric and Oceanic Sciences and the MSE.

section 15.12.1.7: 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 and access to state-of-the-art computing, remote sensing, and atmospheric chemistry laboratory equipment. The Department also has close ties with Environment & Climate Change Canada's numerical weather prediction centre in Dorval, Quebec. Students who do not choose to continue in academia find employment in a variety of areas including research careers at government labs such as Environment & Climate Change Canada.

15.12.1.3 Atmospheric and Oceanic Sciences Admission Requirements and Application Procedures

15.12.1.3.1 Admission Requirements

Applicants to the M.Sc. program must meet the general requirements of Graduate and Postdoctoral Studies and hold a bachelor's degree with high standing in atmospheric and oceanic science, physics, mathematics, engineering, or similar.

The normal requirement for admission to the Ph.D. program is a strong background in meteorology, physical oceanography, or related disciplines such as mathematics, physics, and engineering. Many students will have an M.Sc. degree in one of these fields, although this is not a formal requirement. Students without a master's degree in atmospheric science (meteorology) or physical oceanography will enter at the Ph.D. 1 rather than the Ph.D. 2 level, and devote the first year of the program mainly to coursework.

Inquiries should be addressed directly to the *Student Affairs Coordinator*, Department of Atmospheric and Oceanic Sciences; see the *department's website* for more information.

15.12.1.3.2 Application Procedures

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

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

15.12.1.3.2.1 Additional Requirements

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

- Acceptance by a research supervisor – required for Ph.D. program

15.12.1.3.3 Application Dates and Deadlines

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

Application Opening Dates	Application Deadlines		
All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
			Feb. 28

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

Note: Applications for Summer term admission will not be considered.

15.12.1.4 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*)

R.R. Rogers; B.Sc.(Texas), M.Sc.(MIT), Ph.D.(NYU)

I. Zawadzki; B.Sc.(Buenos Aires), M.Sc., Ph.D.(McG.), F.R.S.C.

Professors

P. Ariya; B.Sc., Ph.D.(York) (*James McGill Professor*) (*joint appt. with Chemistry*)

P. Bartello; B.S.c., M.Sc., Ph.D.(McG.)

J.R. Gyakum; B.Sc.(Penn. St.), M.Sc., Ph.D.(MIT)

M.K. Yau; S.B., S.M., Sc.D.(MIT) (*NSERC/Hydro-Québec Industrial Research Chair in Short-term Forecasting of Precipitation*)

Associate Professors

F. Fabry; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with McGill School of Environment*)

Y. Huang; B.Sc., M.Sc.(Peking), Ph.D.(Princ.)

D. Kirshbaum; B.Sc.(III.), M.Sc.(Johns Hop.), Ph.D.(Wash.)

T. Merlis; B.Sc.(Col.), Ph.D.(Calif. Tech.)

D. Straub; B.Sc., M.Sc.(SW Louisiana), Ph.D.(Wash.)

B. Tremblay; B.Sc., M.Sc.(Car.), Ph.D.(McG.)

Assistant Professors

C. Dufour; B.Eng.(ISITV, France), M.Sc.(Sud Toulon-Var), Ph.D.(Grenoble)

T. Preston; B.Sc.(Tor.), M.Sc.(W. Ont.), Ph.D.(Br. Col.) (*joint appt. with Chemistry*)

A. Zuend; Ph.D.(ETH Zurich)

Adjunct Professors

L. Barrie; Ph.D.(Goethe)

G. Brunet; Ph.D.(McG.)

P. Kollias; Ph.D.(Miami)

H. Lin; Ph.D.(McG.)

L.-P. Nadeau; Ph.D.(McG.)

15.12.1.5 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

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.

15.12.2 Biology

15.12.2.1 Location

Department of Biology
Stewart Biological Sciences Building, Room N7/18B
1205 Dr. Penfield Avenue
Montreal QC H3A 1B1
Canada
Telephone: 514-398-5478
Fax: 514-398-5069
Email: *ancil.gittens@mcgill.ca*
Website: *biology.mcgill.ca*

15.12.2.2 About Biology

The Department offers graduate training in many areas of biology with particular strengths in the following areas:

- Molecular Biology and Genetics
- Cell and Developmental Biology
- Ecology, Biodiversity, and Conservation
- Evolution
- Neurobiology
- Bioinformatics
- Plant Biology

In addition to the regular **M.Sc.** and **Ph.D.** programs, the Biology Department offers specialized programs, known as “concentrations”, in the areas of Neotropical Environment (NEO), Bioinformatics, and En

The Department specifies a minimum level of support for all graduate students. This amount is $15,900 per annum plus tuition fees. The required minimum duration of support is two years for the M.Sc. program, five years for a Ph.D. student entering as Ph.D. 1 (directly from a bachelor's degree), and four years for a Ph.D. student entering as Ph.D. 2 (after having completed a master's degree).

The graduate program of each student is established and regularly evaluated by a three-member supervisory committee appointed by the Graduate Training Committee and chaired by the student's thesis supervisor.

section 15.12.2.5: 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 outstanding and diverse interdisciplinary work, the program also accepts some students with a high scholastic standing who have completed a program in fields other than biology (medicine, engineering, chemistry, physics, etc.).

Alumni have gone on to pursue a wide range of careers. Many go on to pursue postdoctoral research and later assume faculty positions, while others work as researchers in industry, pursuing careers as wildlife biologists, forensic technologists, or science policy advisers, to name a few.

section 15.12.2.8: Master of Science (M.Sc.) Biology (Thesis): Bioinformatics (48 credits)

The goal of the Bioinformatics concentration is to train students to become researchers in the interdisciplinary field of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This work includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. The Bioinformatics graduate concentration consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field. The typical entering student will be affiliated with one of about fourteen different "home" departments in three different faculties, chosen based on his/her specific field of expertise, and will therefore meet the specific requirements for that department. The student will additionally be evaluated according to requirements specific to the Bioinformatics concentration. Students in this concentration will have access to five specialized courses that are open only to students within the Bioinformatics concentration. At the M.Sc. level, students successfully completing the Bioinformatics concentration will be fluent in the concepts, language, approaches, and limitations of the field.

section 15.12.2.6: Master of Science (M.Sc.) Biology (Thesis): Environment (48 credits)

The Environment graduate concentration offers students the opportunity to pursue environment-focused graduate research in the context of a range of different fields, including Anthropology, Atmospheric and Oceanic Sciences, Biology, Bioresource Engineering, Earth and Planetary Sciences, Entomology, Epidemiology, Experimental Medicine, Geography, Law, Microbiology, Plant Science, Parasitology, Philosophy, Renewable Resources, and Sociology. Through a program consisting of research, seminars, and two courses, this concentration adds a layer of interdisciplinarity that challenges students to develop and defend their research and think in a broader context. Students graduating from the M.Sc. or Ph.D. program under the Environment concentration will therefore be able to understand and critically analyze an environmental problem from several perspectives (e.g., social, cultural, scientific, technological, ethical, economic, political, legislative) and at a local, national, regional, and/or international scale. In addition, they will be able to explore and critically assess analytic and institutional approaches for alleviating the selected environmental problem, and to effectively communicate research findings to both specialist and lay audiences. Coordinated and administered through the *McGill School of Environment* (MSE), the Environment concentration is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interactions that will occur as they interact with students from a wide range of disciplines.

section 15.12.2.7: Master of Science (M.Sc.) Biology (Thesis): Neotropical Environment (48 credits)

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based concentration for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, including both Latin American and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. s a v R5h1 27.52 290.087 6e8ll6 T7es, EO student.0rc52 8ll6 T7es, EO c722.3m(Committeehas wildlne researchers)Tjlne rese 1 70.S2 T

section 15.12.2.12: Doctor of Philosophy (Ph.D.) Biology: Bioinformatics

The goal of the Bioinformatics concentration is to train students to become researchers in the interdisciplinary field of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. This work includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases and the use of algorithms and statistics.

The Bioinformatics graduate concentration consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from many backgrounds together and to provide a thorough overview of research in this field. The typical entering student will be affiliated with one of about fourteen different “home” departments in three different faculties, chosen based on his/her specific field of expertise, and will therefore meet the specific requirements for that department. The student will additionally be evaluated according to requirements specific to the Bioinformatics concentration. Students in this concentration will have access to five specialized courses that are open only to students within the Bioinformatics concentration. At the Ph.D. level students will be fluent in the concepts, language, approaches, and limitations of the field and will also have the capability of developing an independent bioinformatics research program.

section 15.12.2.10: Doctor of Philosophy (Ph.D.) Biology: Environment

The Environment graduate concentration offers students the opportunity to pursue environment-focused graduate research in the context of a range of different fields, including Anthropology, Atmospheric and Oceanic Sciences, Biology, Bioresource Engineering, Earth and Planetary Sciences, Entomology, Epidemiology, Experimental Medicine, Geography, Law, Microbiology, Plant Science, Parasitology, Philosophy, Renewable Resources, and Sociology. Through a program consisting of research, seminars, and two courses, this concentration adds a layer of interdisciplinarity that challenges students to develop and defend their research and think in a broader context. Students graduating from the M.Sc. or Ph.D. program under the Environment concentration will therefore be able to understand and critically analyze an environmental problem from several perspectives (e.g., social, cultural, scientific, technological, ethical, economic, political, legislative) and at a local, national, regional, and/or international scale. In addition, they will be able to explore and criticallysectializedstd

- Acceptance by a research director who can provide adequate funding for personal and research expenses

15.12.2.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Jan. 15	March 15	March 15
Winter Term:	Feb. 15	Aug. 15	Oct. 15	Oct. 15
			N/A	N/A

Professors

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.) (*Canada Research Chair in Biodiversity Science*)

Frédéric Guichard; B.Sc.(Montr.), Ph.D.(Laval)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva) (*Strathcona Chair in Zoology; Robert Archibald & Catherine Louise Campbell Chair in Developmental Biology*)

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Redpath Museum*)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT) (*James McGill Professor*) (*Associate Member in Anatomy and Cell Biology, the Goodman Cancer Centre*) (*on sabbatical)*

Louis Lefebvre; B.Sc., M.A., Ph.D.(Montr.)

Laura Nilson; B.A.(Colgate), Ph.D.(Yale)

Catherine Potvin; B.Sc., M.Sc.(Montr.), Ph.D.(Duke)

Neil M. Price; B.Sc.(New Br.), Ph.D.(Br. Col.)

Richard Roy; B.Sc.(Bishop's), Ph.D.(Laval)

Daniel J. Schoen; B.Sc., M.Sc.(Mich.), Ph.D.(Calif.) (*Macdonald Professor of Botany*)

Associate Professors

Gary Brouhard; M.S.E., Ph.D.(Mich.) (*Associate Member in Physics*)

Thomas E. Bureau; B.Sc.(Calif.), Ph.D.(Texas)

Melania Cristescu; B.Sc., M.Sc.(Ovidius Univ. Constanta, Romania), Ph.D.(Guelph) (*Canada Research Chair in Ecological Genetics*)

David Dankort; B.Sc., Ph.D.(McM.)

Joseph A. Dent; B.Sc.(Mich.), Ph.D.(Colo.)

Irene Gregory-Eaves; B.Sc.(Vic., BC), M.Sc., Ph.D.(Qu.) (*on sabbatical*)

Paul Harrison; B.Sc.(NUI), Ph.D.(Lond.) (*on sabbatical*)

Michael Hendricks; B.A.(Bowdoin), Ph.D.(Sing.) (*on sabbatical*)

Rodrigo Reyes Lamothe; Lic.(UNAM), M.Sc.(C'dia), D.Phil.(Oxf.) (*Canada Research Chair in Chromosome Biology*)

Brian Leung; B.Sc.(Br. Col.), Ph.D.(Car.)

Nam-Sung Moon; B.Sc., Ph.D.(McG.)

Simon Reader; B.A.(Colgate), Ph.D.(Yale)

Jon Sakata; B.A.(Cornell), Ph.D.(Texas-Austin, Institute for Neuroscience)

Frieder Schoeck; Dipl.(Erhangen), Ph.D.(Max Planck)

Jacalyn Vogel; M.Sc.(E. Ill.), Ph.D.(Kansas)

Alanna Watt; B.Sc.(C'dia), Ph.D.(Brandeis)

Tamara Western; B.Sc.(Dal.), Ph.D.(Br. Col.) (*Associate Dean [Academic], Faculty of Science*)

Sarah Woolley; B.Sc.(Duke), Ph.D.(Texas-Austin)

Monique Zetka; B.Sc., Ph.D.(Br. Col.)

Hugo Zheng; M.Sc.(Helsinki), Ph.D.(Oxf. Brookes)

Assistant Professors

Abigail Gerhold; Ph.D. (Berkeley)

Mélanie Guigueno; M.Sc.(Manit.), Ph.D.(Western0.9804 0.9216 0.8431 rg0.9804Duklanieo0 1 70.52 155.64 2D5.6inn352 McGill Pr

Complementary Coumentar

PHGY 603	(3)	Systems Biology and Biophysics

15.12.2.9 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 w

The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. 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.

15.12.2.12 Doctor of Philosophy (Ph.D.) Biology: Bioinformatics

Thesis

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

Required Courses (9 credits)

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 62Tm((1.5))Tj1 0 0 10 (3)entar3)	(3)	Bioinformatics: Molecular Biology

15.12.3.2 About Chemistry

Research in Chemistry

Members of the Department are organized into v

section 15.12.3.6: Doctor of Philosophy (Ph.D.) Chemistry

Please consult the Department for more information about this program.

Chemistry Admission Requirements and Application Procedures

Emeritus Professors

Assistant Professors

M. McKeague; B.Sc., Ph.D.(Car.)

T. Preston; B.Sc.(Tor.), M.Sc.(UWS), Ph.D.(Br. Col.)

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.

15.12.4 Computer Science

15.12.4.1 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*

15.12.4.2 About Computer Science

The School of Computer Science is one of the leading teaching and research centres for computer science in Canada. We offer several **M.Sc.** programs and a **Ph.D.** program; all include coursew

section 15.12.4.9: 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.

15.12.4.3 Computer Science Admission Requirements and Application Procedures

15.12.4.3.1 Admission Requirements

Master's (M.Sc.)

The minimum requirement for admission is a bachelor's degree (cumulative grade point average (CGPA) of 3.2 out of 4.0 or better, or equivalent) with the coursework in Computer Science as listed on our *website*.

The website supplements the information in this publication, and should be consulted by all graduate students.

Ph.D.

In order to apply to the Ph.D. program, applicants should hold an M.Sc. degree in Computer Science or a closely related area, from a well-recognized university. Students who hold a B.Sc. degree in Computer Science but have an exceptionally strong academic record may be admitted directly to the Ph.D. program, but they must initially apply to the M.Sc. program. Students who are in the M.Sc. program have the option to be fast-tracked into the Ph.D. program at the end of their first academic year, contingent on excellent performance as judged by the Ph.D. committee.

15.12.4.3.2 Application Procedures

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

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

15.12.4.3.2.1 Additional Requirements

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

- Curriculum Vitae – required for both M.Sc. and Ph.D. programs
- Statement of Purpose – required for both M.Sc. and Ph.D. programs
- *Graduate Record Examination* (GRE General Test) – required for degrees from outside Canada. Optional for Ph.D. program.

For further details, consult the *School of Computer Science's website*

(detailed eUApplication2027Dates0and3326.90571s388.46 Tmn Dates and open-0. Examination)Tj0 G0 goset F1 10 TEnrolor boServi sci 0 1 RG/minati7.74 Gs a

15.12.4.4 Computer Science Faculty

Director
B. Kemme
Emeritus Professors
D. A

Associate Professors

R. Rabbany; B.Sc.(Amirkabir University of

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)	Advanced Computational Biology Methods and Research
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.

15.12.4.9 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 w

15.12.5 Earth and Planetary Sciences

15.12.5.1 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*

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 IAer terrestrial:S;

Associate Professors

Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)

Jeanne Paquette; B.Sc., M.Sc.(McG.), Ph.D.(Stonybrook)

Christie Rowe; A.B.(Smith), Ph.D.(Calif.-Santa Cruz) (*Robert Wares Faculty Scholar*)

Vincent van Hinsberg; Propadeuse, Doctorandus(Utrecht), Ph.D.(Brist.) (*Osisko Faculty Scholar*)

Assistant Professors

Kim Berlo; Propadeuse, Doctorandus(Utrecht), Ph.D.(Brist.)

Nicolas Cowan; B.Sc.(McG.), Ph.D.(Wash.) (*joint appt. with Physics*)

Peter Douglas; B.Sc., Ph.D.(Yale)

Natalya Gomez; B.Sc., M.Sc.(Tor.), Ph.D.(Harv.)

James Kirkpatrick; B.Sc., M.Sc.(Leeds), Ph.D.(Glas.)

Nagissa Mahmoudi; B.Sc.(Tor.), Ph.D.(McM.)

Faculty Lecturer

W. Minarik; B.A.(St. Olaf), M.Sc.(Wash.), Ph.D.(Rensselaer Poly.)

Adjunct Professors

R. Léveillé, B. Sundby

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 approv

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.

One to five courses at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

15.12.6 Geography

15.12.6.1 Location

Department of Geography
Burnside Hall
805 Sherbrooke Street West, Room 705
Montreal QC H3A 0B9
Canada
Telephone: 514-398-4111
Fax: 514-398-7437
Email: *grad.geog@mcgill.ca*
Website: *www.mcgill.ca/geography*

15.12.6.2 About Geography

The Department of Geography offers research and thesis-based graduate programs leading to a **Master of Arts** (M.A.), a

McGill University also operates a *field station* at Expedition Fiord on Axel Heiberg Island in the High Arctic. Facilities are limited to a small lab, dorm building, and cookhouse. Research activities focus on the glacial and geological. For additional information on these stations, contact the Scientific Director, Wayne Pollard, Department of Geography, at *wayne.pollard@mcgill.ca*.

Master of Arts (M.A.) Programs in Geography

Detailed program requirements for the following M.A. programs are found in ***Arts*** > *Graduate* > *Browse Academic Units & Programs* > *Geography*.

section 3.12.9.5: Master of Arts (M.A.) Geography (Thesis) (45 credits)

Master's degrees in both the physical (M.Sc.) and social (M.A.) sciences are offered by Geography. The core of both programs for all students is field-based research, supervised by a faculty member, culminating in a thesis. The core program consists of the thesis component, required, and complementary graduate (500- or 600-level) courses. Geography also offers a number of M.A. and M.Sc. options in association with other McGill departments and programs that students may choose to follow.

section 15.12.6.7: Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for master's students offered in association with several university departments, the *McGill School of Environment*, and the *Smithsonian Tropical Research Institute* (STRI-Panama). The option includes a thesis; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Ph.D. Programs in Geography

section 3.12.9.10: Doctor of Phi 1 153.3goThesisj1 ography (The.314 Tw469. 0 Tw0340 1 rg/F1 8.1 Tf1 0 0 1 70.52 704.9857666.he optiondof Phues1 0 0 1 418.58

15.12.6.3.2 Application Procedures

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

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

Further departmental application information is listed at *www.mcgill.ca/geography/graduate*.

15.12.6.3.2.1 Additional Requirements

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

- Research Proposal
- Letters of Reference – **two** references required for M.A. and M.Sc. programs; **three** references required for Ph.D. program
- Curriculum Vitae

15.12.6.3.3 Application Dates and Deadlines

Associate Professors

M. Kalacska; M.Sc., Ph.D.(Alta.)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

B. Lehner; M.Sc.(Freiburg), Ph.D.(Frankfurt)

T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Camb.)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

B. Robinson; B.Sc.(Georgia Tech.), M.Eng., MCP(MIT), Ph.D.(Wisc. Madison)

R. Sengupta; M.Sc., Ph.D.(Ill.) (*joint appt. with McGill School of Environment*)

R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

J. Unruh; M.S.(Wisc. Madison), Ph.D.(Ariz.)

Assistant Professors

Y. le Polain de Waroux; Ph.D.(Louvain)

G. MacDonald; M.Sc., Ph.D.(McG.)

K. Manaugh; Ph.D.(McG.)

G. McKenzie; B.A.(Br. Col.), M.Sc.A.(Melb.), Ph.D.(Calif., Santa Barbara)

S. Moser; Ph.D.(NUS)

M. Riva; M.Sc., Ph.D.(Montr.) (*joint appt. with the Institute for Health and Social Policy*)

C. von Sperber; Ph.D.(ETH Zurich)

Adjunct Professor

J. Ford; Ph.D.(Guelph)

G. Leblanc; Ph.D.(Mc.M.)

J. Wu; Ph.D.(McG.)

15.12.6.5 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.

15.12.6.6 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

Thesis

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

15.12.6.9 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

15.12.6.10 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

15.12.7 Mathematics and Statistics

15.12.7.1 Location

Detailed program requirements for the following M.Sc. programs are found in ***Science*** > *Graduate* > *Browse Academic Units & Programs* > *Mathematics and Statistics*.

section 15.12.7.5: Master of Science (M.Sc.) Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.). The thesis option requires a thesis and six approved courses.

section 15.12.7.6: 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 15.12.7.7: Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & Engineering (47 credits)

CSE is a rapidly growing multidisciplinary area with connections to the sciences, engineering, mathematics, and computer science. CSE focuses on the de

A master's degree with high standing is required, in addition to the requirements listed above for the master’

Assistant Professors

Tim Hoheisel; Dipl., Ph.D.(Wurzburg)

Jessica Lin; B.A.(NYU), Ph.D.(Chic.)

Michael Lipnowski; B.Sc. (Waterloo), Ph.D. (Stanford)

Piotr Przytycki; M.Sc., Ph.D.(Warsaw)

Brent Pym; B.ScE (Queens), M.Sc., Ph.D. (Toronto)

Marcin Sabok; M.Sc., Ph.D.(Warsaw)

Jérôme Vétois; Ph.D.(Cergy-Pontoise)

Yi Yang; B.S.(Sichuan), M.S., Ph.D.(Minn.)

Associate Members

Xiao-Wen Chang (*Computer Science*)

Pierre R.L. Dutilleul (*Plant Science*)

Leon Glass (*Physiology*)

James A. Hanley (*Epidemiology and Biostatistics*)

Hamed Hatami (*Computer Science*)

Lawrence Joseph (*Epidemiology and Biostatistics*)

Anmar Khadra (*Physiology*)

Michael Mackey (*Physiology*)

Erica E.M. Moodie (*Epidemiology and Biostatistics*)

15.12.7.7 Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Computational Science & 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 577	(3)	Optimum Design
		Fundamentals of Fluid Dynamics(3ciey24Tj261

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
MATH 700	(0)	Ph.D. Comprehensive Examination Part A
MATH 701	(0)	Ph.D. Comprehensive Examination Part B

Complementary Courses (6 credits)

(3-6 credits)

The twelve one-semester complementary courses for the Ph.D. degree must include at least two from the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the list below must be chosen:

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

15.12.8 Physics

15.12.8.1 Location

Department of 2.8.1

- medical-radiation physics.

Although most of the teaching and research facilities are located in the Ernest Rutherford Physics Building, the Department has space and research facilities in the Wong Materials Science Centre, adjacent to the Rutherford Building. Our groups also conduct research at the *McGill University Health Centre* (MUHC), the *Jewish General Hospital*, the *Montreal Neurological Institute* (MNI) and laboratories around the world, including *Argonne*, *CERN*, *FermiLab*, *SLAC*, *TRIUMF*, and *KEK*.

Departmental researchers enjoy technical support in the areas of engineering, electronics, and precision machining. The Department maintains an excellent conventional machine shop as well as the McGill Nanotools-Microfab facility. Most of the scientific computing is done with an extensive in-house network of powerful workstations and several Beowulf clusters.

Remote access to supercomputing sites in Canada and the United States is also possible including the McGill HPC super-computing facility which is a part of the nationwide network of high performance computing installations in Quebec.

The Department of Physics offers a competitive funding package for both local and international students. For more information about financial support, please *www.physics.mcgill.ca/grads/finance.html*.

Graduate students in the Department of Physics come from many different countries and cultural backgrounds, providing a stimulating cosmopolitan atmosphere in the Department. This, coupled with the unique opportunities afforded by the city of Montreal, guarantees a quality of life that is second to none among Canadian universities. For graduate admission and application information, please visit *www.physics.mcgill.ca/grads/application.html*.

Fields of Research:

High-Energy Physics

Theoretical: The McGill high energy theorists have interests in a wide range of areas within quantum field theory, string theory, quantum gravity, and cosmology. Research areas of the high-ener

- molecular electronics and nanoelectronic systems by scanning probe microscopy;
- dynamics and mechanical properties of soft matter systems and spatial organization and dynamics in living cells;
- mechanical behaviour of very small systems by high-resolution force microscopy;
- electronic properties that emerge at the limits of miniaturization and quantum computing;
- nuclear methods to study interactions in magnetic materials that lead to exotic magnetic ordering behaviour. This includes studies of novel materials such as carbon nanotubes, graphene, unconventional superconductors, quantum dots, heterostructures, amorphous systems, and spin glasses.

Astrophysics

Research in the astrophysics group covers a wide range of topics including cosmology, galaxy formation, high-energy astrophysics, and extrasolar planets. This involves observations at all wavelengths, from gamma rays and X-rays to sub-mm, infrared, and radio, using international observatories in space and on the ground. Experimental groups at McGill are involved in development and operation of ground-based high-energy gamma-ray observatories, and cosmic microwave background experiments. Theoretical work includes studies of how astrophysics and observational cosmology can experimentally determine the most important properties of dark matter and dark energy, studies of the diverse physics of neutron stars, and extrasolar planet formation.

Nonlinear V

15.12.8.3.2 Application Procedures

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

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

Financial Assistance

Financial assistance will be offered to all students at the time of acceptance, if applicable. For more information, please visit our finance page: *www.physics.mcgill.ca/grads/finance.html*.

15.12.8.3.2.1 Additional Requirements

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

- 2 Letters of Reference
- Physics CV
- Personal Statement
- Thesis Abstract or Summary – optional
- *GRE* – recommended but not required

A list of supporting documentation required by the University can be found at *www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents*. Further details can also be found on the Department of Psychology's *website*.

15.12.8.3.3 Application Dates and Deadlines

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

	Application Opening Dates	Application Deadlines		
	All Applicants	**Non-Canadian citizens (incl. Special, Visiting & Exchange)**	**Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)**	**Current McGill Students (any citizenship)**
Fall Term:	Sept. 15	Dec. 15	Dec. 15	Dec. 15
Winter Term:	Feb. 15	Sept. 10	Sept. 10	Sept. 10
Summer Term:	N/A	N/A	N/A	N/A

Please note, the Ph.D. program with a research emphasis on medical physics only accepts students in Fall.

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

15.12.8.4 Physics Faculty

Chair

P. Grütter

Director of Graduate Studies

T. Webb

Emeritus Professors

J. Barrette; M.Sc., Ph.D.(Montr.)

J.E. Crawford; B.A., M.A.(Tor.), Ph.D.(McG.)

S. Das Gupta; B.Sc., M.Sc.(Calc.), Ph.D.(McM.) (*Macdonald Emeritus Professor of Physics*)

N.B. de Takacsy; B.Sc., M.Sc.(Montr.), Ph.D.(McG.)

R. Harris; B.A.(Oxf.), Ph.D.(Sus.)

C.S. Lam; B.Sc.(McG.), Ph.D.(MIT)

D.G. Stairs; B.Sc., M.Sc.(Qu.), Ph.D.(Harv.) (*Macdonald Emeritus Professor of Physics*)

J.O. Ström-Olsen; B.A., M.S., Ph.D.(Camb.)

Emeritus Professors

M. Sutton; B.Sc., M.Sc., Ph.D.(Tor.) (*James McGill Professor*) (*Rutherford Professor*)

M.J. Zuckermann; M.A., D.Phil.(Oxf.), F.R.S.C.

Post-Retirement Professors

Z. Altounian; Ph.D.(McM.)

F. Buchinger; Ph.D.(Johannes Gutenberg)

Professors

R. Brandenberger; Dip.(ETH), A.M., Ph.D.(Harv.) (*Canada Research Chair*)

J. Cline; B.S.(Harvey Mudd), M.Sc., Ph.D.(Caltech.)

F. Corriveau; B.Sc.(Laval), M.Sc.(Br. Col.), Ph.D.(ETH) (*Affiliated I.P.P. Scientist*)

M. Dobbs; B.Sc.(McG.), Ph.D.(Vic., BC)

C. Gale; B.Sc.(Ott.), M.Sc., Ph.D.(McG.) (*James McGill Professor*)

G. Gervais; B.Sc.(Sher.), M.Sc.(McM.), Ph.D.(N'western)

M. Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.), F.R.S.C. (*James McGill Professor*)

P. Grütter; 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.)

A. Maloney; B.S., M.S.(Stan.), Ph.D.(Harv.)

N. Provatas; Ph.D.(McG.) (*Canada Research Chair*)

Assistant Professors

K. Agarwal; Ph.D. (Harv.)

T. Brunner; Dip., Ph.D.(Munich)

S. Caron-Huot; B.Sc.(Laval), M.Sc., Ph.D.(McGill)

L. Childress; Ph.D.(Harv.) (*Canada Research Chair*)

D. Cooke; Ph.D.(Alta.)

PHYS 693	(3)	M.Sc. Research

Students must also successfully complete all the other normal requirements of Graduate and Postdoctoral Studies.

15.12.8.6 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

15.12.9 Psychology

15.12.9.1 Location

Department of Psychology
2001 McGill College Avenue, 7th Floor
Montreal QC H3A 1G1
Canada
Telephone: 514-398-6124/514-398-6100
Fax: 514-398-4896
Email: *gradsec@ego.psych.mcgill.ca*
Website: *www.mcgill.ca/psychology*

15.12.9.2 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 (w

Note: Many MUHC-affiliated hospitals and institutes are now located at the Glen site; further information is available on the *MUHC website*.

For inquiries about all programs and financial aid, and for application forms, contact the *Graduate Program Coordinator*, Department of Psychology.

Ph.D. Option in Beha

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 an

Emeritus Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

A.S. Bregman; B.A., M.A.(Tor.), Ph.D.(Yale)

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

15.12.9.6 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

PSYC 701	(0)	Doctoral Comprehensive Examination

Complementary Courses

12-24 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

PSYC 710	(3)	Comparative and Physiological Psychology 1
PSYC 711	(3)	Comparative and Physiological Psychology 2
PSYC 712	(3)	Comparative and Physiological Psychology 3
PSYC 713	(3)	Comparative and Physiological Psychology 4
PSYC 714	(3)	Comparative and Physiological Psychology 5
PSYC 715	(3)	Comparative and Physiological Psychology 6
PSYC 718	(3)	Learning and Motivation
PSYC 722	(3)	Personality and Social Psychology
PSYC 723	(3)	Personality and Social Psychology
PSYC 724	(3)	Personality and Social Psychology
PSYC 725	(3)	Personality and Social Psychology
PSYC 727	(3)	Personality and Social Psychology
PSYC 728	(3)	Ethics and Professional Issues
PSYC 729	(3)	Theory of Assessment
PSYC 730	(3)	Clinical Neuroscience Methods
PSYC 732	(3)	Clinical Psychology 1
PSYC 733	(3)	Clinical Psychology 2
PSYC 734	(3)	Developmental Psychology and Language
PSYC 735	(3)	Developmental Psychology and Language

PSYC 736	(3)	Developmental Psychology and Language
PSYC 740	(3)	Perception and Cognition
PSYC 741	(3)	Perception and Cognition
PSYC 742	(3)	Perception and Cognition
PSYC 743	(3)	Perception and Cognition
PSYC 744	(3)	Perception and Cognition
PSYC 746	(3)	Quantitative and Individual Differences
PSYC 747	(3)	Quantitative and Individual Differences
PSYC 748	(3)	Quantitative and Individual Differences
PSYC 749	(3)	Quantitative and Individual Differences
PSYC 752D1	(3)	Psychotherapy and Behaviour Change
PSYC 752D2	(3)	Psychotherapy and Behaviour Change
PSYC 753	(3)	Health Psychology Seminar 1
PSYC 754	(3)	Health Psychology Seminar 2
PSYC 755	(3)	Health Psychology Seminar 3
PSYC 756	(3)	Health Psychology Seminar 4

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

15.12.9.7 Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

** NEW PROGRAM **

The Ph.D. in Psychology; Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurobiological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise; the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes as determined by the graduate program director.

Thesis

A thesis for the doctoral de

6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

15.12.9.8 Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

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

Required Courses (6 credits)

LING 710	(2)	Language Acquisition Issues 2
PSYC 701	(0)	Doctoral Comprehensive Examination
PSYC 709	(2)	Language Acquisition Issues 1
SCSD 712	(2)	Language Acquisition Issues 4

Complementary Courses

15-32 credits

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

PSYC 710	(3)	Comparative and Physiological Psychology 1
PSYC 711	(3)	Comparative and Physiological Psychology 2
PSYC 712	(3)	Comparative and Physiological Psychology 3
PSYC 713	(3)	Comparative and Physiological Psychology 4
PSYC 714	(3)	Comparative and Physiological Psychology 5
PSYC 715	(3)	Comparative and Physiological Psychology 6
PSYC 718	(3)	Learning and Motivation
PSYC 722	(3)	Personality and Social Psychology
PSYC 723	(3)	Personality and Social Psychology
PSYC 724	(3)	Personality and Social Psychology
PSYC 725	(3)	Personality and Social Psychology
PSYC 727	(3)	Personality and Social Psychology
PSYC 728	(3)	Ethics and Professional Issues
PSYC 729	(3)	Theory of Assessment
PSYC 730	(3)	Clinical Neuroscience Methods
PSYC 732D1	(1.5)	Clinical Psychology 1
PSYC 732D2	(1.5)	Clinical Psychology 1
PSYC 733D1	(1.5)	Clinical Psychology 2

PSYC 733D2	(1.5)	Clinical Psychology 2
PSYC 734	(3)	Developmental Psychology and Language
PSYC 735	(3)	Developmental Psychology and Language
PSYC 736	(3)	Developmental Psychology and Language
PSYC 740	(3)	Perception and Cognition
PSYC 741	(3)	Perception and Cognition
PSYC 742	(3)	Perception and Cognition
PSYC 743	(3)	Perception and Cognition
PSYC 744	(3)	Perception and Cognition
PSYC 746	(3)	Quantitative and Individual Differences
PSYC 747	(3)	Quantitative and Individual Differences
PSYC 748	(3)	Quantitative and Individual Differences
PSYC 749	(3)	Quantitative and Individual Differences
PSYC 752D1	(3)	Psychotherapy and Behaviour Change
PSYC 752D2	(3)	Psychotherapy and Behaviour Change
PSYC 753	(3)	Health Psychology Seminar 1
PSYC 754	(3)	Health Psychology Seminar 2
PSYC 755	(3)	Health Psychology Seminar 3
PSYC 756	(3)	Health Psychology Seminar 4

At least 3 credits selected from the following list:

EDSL 620	(3)	Social Justice Issues in Second Language Education
EDSL 623	(3)	Second Language Learning
EDSL 624	(3)	Educational Sociolinguistics
EDSL 627	(3)	Instructed Second Language Acquisition Research
EDSL 629	(3)	Second Language Assessment
EDSL 632	(3)	Second Language Literacy Development
LING 555	(3)	Language Acquisition 2
LING 590	(3)	Language Acquisition and Breakdown
LING 651	(3)	Topics in Acquisition of Phonology
LING 655	(3)	Theory of L2 Acquisition
LING 751	(3)	Advanced Seminar: Experimental 1
LING 752	(3)	Advanced Seminar: Experimental 2
PSYC 545	(3)	Topics in Language Acquisition
PSYC 735	(3)	Developmental Psychology and Language
SCSD 619	(3)	Phonological Development
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Development
SCSD 637	(3)	Developmental Language Disorders 1
SCSD 643	(3)	Developmental Language Disorders 2
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2

SCSD 654	(3)	Advanced Research Seminar 3

0-2 from the following:

EDSL 711	(2)	Language Acquisition Issues 3

0-3 credits of statistics from the following list:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
LING 620	(3)	Experimental Linguistics: Methods
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Students who have taken an equivalent course in statistics will be deemed to have satisfied this requirement for the Language Acquisition Option.

These 3 credits are only required for students who have not previously taken an equivalent course in statistics.

0-12 credits from the following (students without a McGill master's degree need to take all 12 credits):

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficienc

PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

Complementary Course (3 credits)

One of the following courses:

PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 753	(3)	Health Psychology Seminar 1
SWRK 609	(3)	Understanding Social Care
SWRK 668	(3)	Living with Illness, Loss and Bereavement

15.12.10 Redpath Museum

15.12.10.1 Location

Redpath Museum
859 Sherbrooke Street West
Montreal QC H3A 0C4
Canada
Telephone: 514-398-4086
Email: *redpath.museum@mcgill.ca*
Website: *www.mcgill.ca/redpath*

15.12.10.2 About Redpath Museum

The Redpath Museum is a unique interdisciplinary unit within the Faculty of Science offering graduate training in research devoted to biodiversity, ecology, conservation biology, and evolutionary biology, leading to **M.Sc.** and **Ph.D.** degrees. It is an institution with extensive collections of ancient and modern organisms, minerals, and cultural artifacts. Research and teaching are centred on collections-based study, object-oriented investigation, and fieldwork. The Museum has a unique public engagement mission with large exhibit galleries and a vibrant outreach program.

15.12.10.3 Redpath Museum Admission Requirements and Application Procedures

15.12.10.3.1 Admission Requirements

The Redpath Museum does not have its own graduate programs. All graduate students of the professors in the Redpath Museum have affiliations with either **Biology**, **Earth and Planetary Sciences**, **Anthropology**, **Natural Resource Sciences**, or **Education**. Admission requirements are subject to those home departments' regulations.

15.12.10.3.2 Application Procedures

Students in the Redpath Museum may enrol in McGill's Department of *section 15.12.2: Biology* or other units, including the Department of *section 15.12.5: Earth and Planetary Sciences*, the Department of *section 3.12.1: Anthropology*, the Department of *section 2.12.7: Natural Resource Sciences*, or the *Faculty of Education*. Anyone interested should contact the unit concerned.

15.12.10.3.3 Application Dates and Deadlines

For more information, please contact the Graduate Program Coordinator in the department you are interested in.

15.12.10.4 Redpath Museum Faculty

Director

Hans C.E. Larsson

Emeritus Professor

Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

Professors

David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F.L.S.

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Biology*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with McGill School of Environment*)

Associate Professors

Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.)

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montpellier II)

Assistant Professor

Rowan Barrett; B.Sc.(Guelph), M.Sc.(McG.), Ph.D.(Br. Col.) (*CRC Tier 2 Chair in Biodiversity Science*)

Associate Members

Biology: Graham A.C. Bell, Lauren Chapman

Chemistry: David N. Harpp (*Tomlinson Chair in University Science Teaching*)

Earth & Planetary Sciences: Jeanne Paquette

McGill School of Environment: Colin Chapman

Adjunct Professors

Robert Holmes, Henry M. Reiswig, Michael Woloch