Graduate and Postdoctoral Studies

Programs, Courses and University Regulations

2020-2021

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

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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.

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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 re

The category of Graduate Research Trainee cannot be used to conduct the majority of thesis research at McGill under the supervision of a McGill professor.

Conditions

Students applying to be a Graduate Research Trainee:

- must be registered in a graduate degree program at another university;
- must have permission from the sponsoring institution and include a letter of permission with their application;
- must have the approval of a McGill professor and graduate program to supervise their research;
- may apply for a start date throughout the academic year, but for administrative reasons, must reapply at the beginning of the formal academic year (for Fall term admission) if remaining at McGill; for example, if you begin a 12-month visit in January, you must reapply for the Fall term (September). A trainee may spend up to a maximum of 12 months at McGill, but the time does not have to be consecutive. The trainee can apply for multiple stages over a period of time that does not exceed 12 months.
- must include copies of transcripts as part of the application package;
- must demonstrate adequate proficiency in English to function in the University environment, including any required safety training and understanding of policies and procedures. Assessment of written and verbal language skills is the responsibility of the supervising professor;
- are not charged fees for any term of registration including Summer;
- are not charged an

- 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 via *Minerva* between April 1, 2020 and August 14, 2020.

Newly-Admitted Students:

New students entering in **September 2020** register via *Minerva* between July 7, 2020 and August 14, 2020.

New students entering in **January 2021** register via *Minerva* between December 1, 2020 and January 4, 2021.

Note: If you fail to register during the normal registration period, you can register within the period designated by the University for late registration. You will, however, be charged a late registration fee. **To avoid the late registration fee, students must access *Minerva* and register for REGN RCGR (the Registration Confirmation course) in both the Fall (CRN 2334) and Winter (CRN 2262) terms.** New students entering in January 2020 only need to register for REGN RCGR in the Winter (CRN 2262) term.

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

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

1.1.3.2 Fee Policies Related to Registration

Refer to *University Regulations & Resourcesces*

- 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 *this page.*
- Since these courses finish before the end of term, **the Graphos add/drop and withdrawal (with and without refund) dates are often earlier than the standard University dates for full term courses**.
- Graphos courses are exempt from the "J" grade assignment percentage policy set out in the *University Student Assessment Policy* (see 3.1.7).
- Before registering, please consult the *Graphos website* for further details.

1.1.3.5.2 List of McGill Writing Centre/Graphos Courses

CEAP 642 – Cornerstones of Academic Writing
CEAP 652 – Fundamentals of Academic Presentations
CEAP 661 – Literature Review 1: Summary and Critique
CEAP 665 – Literature Review 2: Establishing Scholarly Niches

CESL 631 – Strategies for Academic Communication in English
CESL 641 – Fundamentals of Academic Writing in English
CESL 651 – Pronunciation for Effective Communication

CESL 614 – Communicating Science to the Public

CEAP 671 – Selected Topics in Communication 1
CEAP 672 – Selected Topics in Communication 2

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

1.1.3.6 Registration for Two Degree Programs Concurrently

No student may register in two degree programs or in tw

1.1.3.9.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) with refund:

- Tuesday, September 22, 2020

Deadlines for withdrawal (grade of W) without refund:

- Single-term courses: Tuesday

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 e

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/key* in the section *Cross-walk of current subject codes to pre-2002 course numbers*.

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

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

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

1.1.4.3 Multi-term Courses

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

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

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

Courses with numbers ending in D1 and D2 are taught in two consecutive terms (most commonly Fall and Winter). *You must register for the same section of both the D1 and D2 components*. When registering for a Fall term D1 course on Minerva, you will automatically be registered in the same section of the Winter term D2 portion. No credit will be given unless the same section of both components (D1 and D2) are successfully completed in consecutive terms, e.g., Fall 2020 and Winter 2021.

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

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

Note for the Faculties of Arts and Science (including B.A. & Sc.): If you select a multi-term course, you are making a commitment to that course for its entirety. *You **must** register in the same section in all terms of a multi-term course*. Credit will be jeopardized if you deliberately register in different sections of a multi-term course. In the case of Fall/Winter D1/D2 courses, attempting to change section in Winter may result in an inadvertent withdrawal (W) from the D1 course, and reinstatement in the D1/D2 course will result in you being charged administrative fees.

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

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

Important Conditions for Multi-term Courses

1. You must be registered for each component of the multi-term course. You must ensure that you are registered in the same section in each term of the multi-term course.
2. You must successfully complete each component in sequence as set out in the multi-term course. Credit is granted only at the end of the multi-term course; no partial credit is given, i.e., for completing only one component of a D1/D2 or N1/N2 course, or one to two components of a J1/J2/J3 course.

1.1.4.4 Course Terminology

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

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

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

1.1.4.4.1 Course Nomenclature in Program Descriptions

Required Courses: Mandatory courses that must be completed to fulfil the requirements of a program (e.g., major, minor, etc. at the undergraduate level or specific courses at the graduate 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 27, 2020**

1.1.5.2.2 Winter Term

From January 1 to January 19, 2021 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 19 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 26, 2021**
- Deadline for University withdrawal without refund: **Tuesday, March 9, 2021**

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: The deadline to withdraw from a multi-term (spanned; D1/D2) course with partial refund is the winter **add/drop** deadline

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*

Language Requirements – Master's Degrees

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

1.1.7.2 Doctoral Degrees

Residency Requirements – Doctoral

Refers to a period of time, measured in terms or years, necessary for completion of the program. You are not permitted to graduate until you have fulfilled the residency requirement (and paid the corresponding fees) in your program.

Only exceptional candidates holding a bachelor's degree will be considered for direct admission to Ph.D. 1 level.

Candidates entering Ph.D. 1 must follow a program of at least three years' residency (end of Ph.D. 3). This is a minimum requirement, and there is no guarantee that the work of the degree can be completed in this time. Students are expected to complete their degree within the maximum specified period.

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

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

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

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

Comprehensive Examinations – Doctoral

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

Language Requirements – Doctoral

You should consult their academic units to inquire about language requirements.

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

All language requirements must be fulfilled and the grades reported **before** submission of the thesis to GPS (see *section 1.1.9: Regulations Concerning Theses*).

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

Thesis – Doctoral

The thesis for the Ph.D. degree must display original scholarship expressed in good literate style and must be a distinct contribution to knowledge. **Formal notice of a thesis title and names of examiners must be submitted to eGraduate and Postdoctoral Studies (GPS) on the *Nomination of Examiners* eform, available at *wwTj1 0 0 1 266al0 0 1 67.52 ners***

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

- contact you through the McGill Alumni Association and University offices that maintain contact with McGill students, alumni, and friends, for the purpose of providing University updates and opportunities for direct support to the University, including fundraising, and making available special offers such groups may benefit from.

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

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

1.1.8.2.2 Transcript of Academic Record: General Information

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

The University issues official transcripts in electronic or paper format. Requests for both electronic official (**eTranscripts**).6 y1 0 0 1 423.2r paper formatr fa0.017 Tf1 0cTr

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

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

Note that your faculty/school or Graduate and Postdoctoral Studies does not handle changes related to your citizenship and/or immigration or fee exemption status; see *section 1.1.12.1: Why Does McGill Collect Legal Documents from You?* You may be assessed a fee for a change requested after the submission deadline.

1.1.9 Regulations Concerning Theses

1.1.9.1 Thesis Regulations

A thesis is a scholarly work requiring discussion of methodology, conclusions, and significance of the research beyond what might be expected for manuscripts for publication. A thesis must be written in English or French, except in courses where knowledge of a language is one of the objectives of the course. The University requires that all theses conform to the *gener*

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 re

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 University to verify official documents—such as a name or citizenship change, or a correction of your birth date—refer to the instructions at *www.mcgill.ca/student-records/personal-information/address*. Macdonald campus students can request changes in person at the *Macdonald Campus Student Affairs Office*, Laird Hall, Room 106.

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

Note for Nursing: A Quebec address and telephone number must be registered on Minerva to meet OIIQ registration requirements.

1.1.12 Submitting Legal Documents

McGill requires documentation from you to confirm your legal status. The follo

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

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

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

Note that this information may be subject to change.

1.1.12.3 Has McGill Received Your Documents?

1.1.12.3.1 Quebec/Canadian/International Fees and Immigration Status

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

- Check your tuition status on the *Minerva* Student Accounts menu: *Student Menu > Student Accounts Menu > View Tuition Fee and Legal Status*.

  

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

- Check the phrase: *Fees currently calculated according to rules for....* This will tell you if your tuition status is currently being billed at the international rate, the Canadian rate, or at the Quebec rate. For information on fees, see *www.mcgill.ca/student-accounts*.

If you do not agree with your tuition status, notify McGill right away

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

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

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

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

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

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

1.1.13.2 Graduation Approval Query

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

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

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

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

Note for Medicine and Dentistry: The Application for Graduation is available on Minerva when you register for your final year (e.g., U3 or U4), except if you are in the Faculty of Medicine or Faculty of Dentistry, where you are automatically flagged for graduation in your final year.

1.1.13.3 Replacing a Diploma

1.1.13.3.1 Required Documents

Replacing a lost diploma

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

Requesting a diploma or modifying your name

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

1.1.13.3.2 Submitting your request

There are two ways to submit a request:

1. Via *Service Point Checkout eStore* – Follow the instructions found at *www.mcgill.ca/graduation/diplomas* first, then to submit the order go to *spcheckout.mcgill.ca*.
2. Come to *Service Point* in person with the required documents. You must pay the replacement fee of CAD$120 per diploma copy (includes trackable mail delivery). Payment is accepted by **debit card only**. If you choose this option, please allow for appropriate delays in diploma printing and mailing time.

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

1.1.13.3.3 Certified Copies

Enrolment Services will certify copies of your diploma in the original language or issue certified translations in English (from the original qpuduating

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

- 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 Username, used to access computers on campus, WiFi, Email, Office 365, campus printing, and more
- Vie

- **Downtown campus**

  Service Point
  3415 McTavish
  Montreal QC H3A 0C8
ebsite: 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

on what is covered by this plan, as well as enrolment, opt-out procedures, and deadlines, please refer to the latest information at *studentcare.ca/rte/en/McGillUniversitygraduatestudentsPGSS_Home*. Students without valid Canadian medicare, please see *section 1.1.15.2: Health Insurance – International Students*

This policy specifies conditions under which graduate students will be withdrawn from the University due to unsatisf

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

2. **Super**

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

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

   

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

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

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

Note for Health Sciences: Students studying in the Faculties of Dentistry or Medicine or in the Schools of Human Nutrition, Nursing, or Physical and Occupational Therapy should consult the Health Sciences *: Language Policy* and any language policies pertaining to their specific program. Programs with a clinical component require that students have a working knowledge of both English and French.

1.2.8 Leave of Absence Status

1.2.8.1 Graduate and Postdoctoral Leave of Absence Policy

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

- maternity or parenting
- personal or family health
- professional development (graduate students only)
- required military service (graduate students only)VVVV

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 leav

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

Assessment

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

Where there is more than one component to the examination (e.g., an oral exam plus a written e

Senate, April 20, 2016.

1.2.12 University Student Assessment Policy

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

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

You can consult the policy on the *Secretariat website*.

1.3 Graduate Studies at a Glance

1.3.1 Graduate and Postdoctoral Degrees Offered by Faculty

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

Faculty of Agricultural and Environmental Sciences	**Degrees Available**
section 2.12.1: Agricultural Economics	M.Sc.
section 2.12.2: Animal Science	M.Sc., M.Sc.A., Ph.D.
section 2.12.3: Bioresource Engineering	M.Sc., M.Sc.A., Ph.D.
section 2.12.4: Biotechnology	M.Sc.A., Graduate Certificate
section 2.12.5: Food Science and Agricultural Chemistry	M.Sc., Ph.D.
section 2.12.6: Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
section 2.12.7: Natural Resource Sciences	M.Sc., Ph.D.
section 2.12.8: Parasitology	M.Sc., Ph.D.
section 2.12.9: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certificate
Faculty of Arts	**Degrees Available**
section 3.12.1: Anthropology	M.A., Ph.D.
section 3.12.2: Art History	M.A., Ph.D.
Classics – see *section 3.12.10: History and Classical Studies*	N/A
section 3.12.4: Communication Studies	M.A., Ph.D.
section 3.12.5: East Asian Studies	M.A. (*Ad Hoc*), Ph.D. (*Ad Hoc*)
section 3.12.6: Economics	M.A., Ph.D.
section 3.12.7: English	M.A., Ph.D.
section 3.12.8: French Language and Literature	M.A., Ph.D.
section 3.12.9: Geography	M.A., Ph.D.
section 3.12.10: History and Classical Studies	M.A., Ph.D.
section 3.12.11: Information Studies	M.I.St., Ph.D., Graduate Certificate
section 3.12.12: International Development	N/A
section 3.12.13: Islamic Studies	M.A., Ph.D.
section 3.12.14: Jewish Studies	M.A., Ph.D. (*Ad Hoc*)
section 3.12.15: Languages, Literatures, and Cultures	M.A., M.A. (*Ad Hoc*), Ph.D., Ph.D. (*Ad Hoc*)
section 3.12.16: Linguistics	M.A., Ph.D.
section 3.12.17: Mathematics and Statistics	M.A., Ph.D.
section 3.12.18: Philosophy	M.A., Ph.D.
section 3.12.19: Political Science	M.A., Ph.D.

Faculty of Arts	**Degrees Available**
section 3.12.21: Public Policy	M.P.P.
section 3.12.20: Psychology	M.A., Ph.D.
section 3.12.22: Quebec Studies / Études sur le Québec	N/A
section 3.12.23: Religious Studies	M.A., S.T.M., Ph.D.
section 3.12.24: Social Studies of Medicine	N/A
section 3.12.25: Social Work	M.Sc.A., M.S.W., M.S.W. & B.C.L./J.D., Ph.D.
section 3.12.26: Sociology	M.A., Ph.D.

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 Medicine	**Degrees Available**

Degree		Prerequisites
Master of Business Administration	M.B.A.	An undergraduate degree from an approved university. See *section 10.13: M.B.A. Program*. Bachelor's de

Master of Arts (M.A.)		
Counselling Psychology	Non-Thesis (Professional Internship), Non-Thesis (Project)	N/A
East Asian Studies	Thesis (*Ad Hoc*)	N/A
Economics	Thesis, Non-Thesis	Development Studies, Population Dynamics, Social Statistics (Non-Thesis)
Educational Psychology	Thesis	Health Professions Education, Human Development, Learning Sciences, School/Applied Child Psychology
Education and Society	Thesis, Non-Thesis	Gender and Women's Studies, Mathematics and Science Education (Thesis) 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

Master of Arts (M.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 Business Administration and Management Degrees (M.B.A., M.M.)		
M.B.A.	Non-Thesis	General Management
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Strategy and Leadership, Marketing, Technology and Innovation
E.M.B.A.	Non-Thesis	N/A
M.M.	Non-Thesis	Analytics, Finance, Manufacturing Management
M.M./IMHL	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
Master of Education (M.Ed.)		
Educational Psychology	Non-Thesis	Family Life Education, General Educational Psychology, General Educational Psychology: Project, Inclusive Education, Inclusive Education: Project, Learning Sciences
Master of Engineering (M.Eng.)		
Aerospace Engineering	Non-Thesis	N/A
Biological and Biomedical Engineering	Thesis	N/A
Chemical Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Non-Thesis	N/A
Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Mechanical Engineering	Thesis, Non-Thesis	N/A
Mining Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Information Studies (M.I.St.)		
The School of Information Studies offers a postgraduate professional program in librarianship. Two years of full-time study or the equivalent are required.		
Information Studies	Non-Thesis	Project
Master of Laws (LL.M.)		
Law	Thesis, Non-Thesis	Bioethics (Thesis) Air and Space Law, Comparative Law, Environment (Thesis and Non-Thesis)
Master of Management (M.M.)		
Analytics	Non-Thesis	N/A
Finance	Non-Thesis	N/A
Manufacturing Management	Non-Thesis	N/A
IMHL	Non-Thesis	N/A
IMPM	Non-Thesis	N/A

Master of Music (M.Mus.)		
Performance	Thesis	Jazz Performance, Early Music, Orchestral Instruments and Guitar, Collaborative Piano, Piano, Opera and Voice, Organ and Church Music, Conducting
Sound Recording	Non-Thesis	N/A
Master of 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 given in the School of Religious Studies. This degree is primarily for those who intend to enter the ministry of the Christian Church or another religious institution, or to proceed to teaching in schools. A Master of Arts program (thesis and non-thesis) is also available.		
Religious Studies	Non-Thesis	N/A
Master of Science (M.Sc.)		
Agricultural Economics	Thesis	N/A
Animal Science	Thesis	N/A
Atmospheric and Oceanic Science	Thesis	Environment
Biochemistry	Thesis	Bioinformatics, Chemical Biology
Biology	Thesis	Bioinformatics, Environment, Neotropical Environment
Bioresource Engineering	Thesis, Non-Thesis	Environment (Thesis) Integrated Water Resource Management (Non-Thesis)
Biostatistics	Thesis, Non-Thesis	N/A
Cell Biology	Thesis	N/A
Chemistry	Thesis	N/A
Civil Engineering	Thesis	N/A
Communication Sciences and Disorders	Thesis	N/A
Computer Science	Thesis, Non-Thesis	Bioinformatics
Dental Sciences	Thesis, Non-Thesis	N/A
Earth and Planetary Sciences	Thesis	Environment
Electrical Engineering	Thesis	N/A
		Environment, Neotropical Environment

Master of Social Work (M.S.W.)		
		International Partner Program, Gender and Women's Studies (Non-Thesis)
Joint Master of Social Work with B.C.L. and J.D.	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.		
Urban Planning	Non-Thesis	Transportation Planning, Urban Development and Urban Design
***Ad Hoc* Master of Arts (M.A. (*Ad Hoc*))**		
Digital Humanities	Thesis	N/A
East Asian Studies	Thesis	N/A

1.3.3 Doctoral Degrees Available at McGill

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

Degree		Prerequisites
Doctor of Civil Law	D.C.L.	B.C.L. or LL.B. and usually LL.M. See *section 9.12.1: Law*.
Doctor of Music	D.Mus.	M.A. in Composition (D.Mus. in Composition) or a master's degree in Performance, and professional and teaching experience (D.Mus. in Performance). See *section 12.12.1: Schulich School of Music*.
Doctor of Philosophy	Ph.D.	An undergraduate degree relevant to the subject chosen for graduate work. Some departments require all Ph.D. candidates to hold a master's degree in the same subject. Departments may recommend that candidates of undoubted promise should be allowed to proceed directly to the Ph.D. degree without being required to submit a master's thesis.
Joint Doctor of Philosophy	Ph.D.	Joint Ph.D.s are offered in co-operation with other universities.
Ad Hoc Doctor of Philosophy	Ph.D. (*Ad Hoc*)	Several departments offer the possibility of directly entering a Ph.D. program on an *ad hoc* basis, or, with the permission of the supervisor and the approval of the Graduate Program Director, exceptional students may transfer from the master's program to the *ad hoc* Ph.D. program.

1.3.3.1 Doctoral Degree Programs and Specializations

Program	Options	Offered by Faculty/School
Doctor of Civil Law (D.C.L.)		
Doctoral programs are offered in Air and Space Law and Law (Comparative Law). Both are predominantly research degrees awarded on the basis of a thesis that represents an original contribution to the development of legal science.		
Law	Air and Space Law, Comparative Law	Faculty of Law
Doctor of Music (D.Mus.)		
The Doctor of Music degree is offered in Composition. The Doctoral thesis consists of a musical composition of major dimensions together with a written analysis of the work. The composition is presented by the candidate in concert. The regulations set forth for the Ph.D. generally apply also to the D.Mus. The Doctor of Music degree is also offered in Performance. It is offered to professional musicians who wish to teach at the university level and to develop a specialization in a particular repertoire, approach, or discipline (musicology, music theory, music education and pedagogy, or music technology).		
Music	Composition, Performance Studies	Schulich School of Music
Doctor of Philosophy (Ph.D.)		
Animal Science	Bioinformatics	Faculty of Agricultural and Environmental Sciences
Anthropology	Neotropical Environment	Faculty of Arts

Doctor of Philosophy (Ph.D.)		
Architecture	N/A	Faculty of Engineering
Art History	Gender and Women's Studies	Faculty of Arts
Atmospheric and Oceanic Sciences	N/A	Faculty of Science
Biochemistry	Bioinformatics, Chemical Biology	Faculty of Medicine
Biology	Bioinformatics, Environment, Neotropical Environment	Faculty of Science
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
	N/A	Faculty of Engineering

1.3.4 Postdoctoral Research

See *section 2.8: Postdoctoral Research*

1.4.1 Application for Admission

Application information and the online application form are available at

1.4.3.1 Document Checklist Terms

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

Audition: a trial performance where a performer demonstrates their suitability or skill.

Curriculum Vitae: an overview of the applicant's experience and other qualifications, including employment, academic credentials, publications, contributions, and significant achievements.

GMAT: Graduate Management Aptitude Test (see *section 1.4.4: Admission Tests* below)

GRE: Graduate Records Examination (see *section 1.4.4: Admission Tests* below)

Interview: a conversation between the applicant and a McGill representative, using a structured, standardized approach to allow for comparison and analysis of responses from all applicants interviewed; in person, via telephone, Skype, etc.

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

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

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

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

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

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

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

1.4.4 Admission Tests

Graduate Record Examination (GRE)

The Graduate Record Examination (GRE) (Educational Testing Service, Princeton, NJ 08540) consists of a relatively advanced test in the candidates' specialty, and a general test of their attainments in several basic fields of knowledge for which no special preparation is required or recommended. It is offered at many centres, including Montreal, several times a year; the entire examination takes about eight hours, and there is a registration fee. Refer to *www.ets.org/gre* 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) Test of English – Level 5 – with an overall grade of at least "Pass."
7. *McGill* Certificate of Proficiency in English or McGill Certificate of Proficiency – English for Professional Communication: Certificate of Proficiency awarded.

In each case, applicants must ensure that official test results are sent to McGill directly by the testing service. Applications cannot be considered if test results are not available. These scores are general minima; some 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 the first term of studies must apply for admission for a Fall term as his/her second term of studies.

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

1.4.7 Admission to a Second Degree Program

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

1.4.8 Admission to Two Degree Programs

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

1.4.9 Admission of Former Students

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

1.4.10 Deferral of Admission

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

1.5 Fellowships, Awards, and Assistantships

Graduate and Postdoctoral Studies

1.6.8 Office of Sponsored Research

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

1.6.9 Postdoctoral Fellows

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

1.7 Student Services and Information

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

1.7.1 Service Point

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

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

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

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

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

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

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

Website: *www.mcgill.ca/firstyear*

1.7.3.2 Career Planning Service (CaPS)

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

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

1.7.3.3 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*

1.7.3.5 Office of Religious and Spiritual Life (MORSL)

Connects students from various religious backgrounds with their on-campus communities and faith liaisons. Provides students with space and resources to explore spirituality, and educates students on how to thrive in a pluralistic society.

Presbyterian College, 3495 University Street, 2nd floor
Telephone: 514-398-4104
Email: *morsl@mcgill.ca*
Website: *www.mcgill.ca/morsl*

1.7.3.6 Office for Sexual Violence Response, Support, and Education

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

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

1.7.3.7 Office for Students with Disabilities (OSD)

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

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

Exam Centre

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

Macdonald Campus
Telephone: 514-398-7992
Website: *www.mcgill.ca/osd*

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*

1.7.3.9 Scholarships and Student Aid Office

Provides assistance in the form of bursaries, loans, and Work Study programs to students requiring financial aid; administers government aid programs; and promotes financial wellness through tools and workshops.

Brown Student Services Building, East Wing, Suite 3200
Telephone: 514-398-6013
Student Aid email: *student.aid@mcgill.ca*
Scholarships email: *scholarships@mcgill.ca*
Website: *www.mcgill.ca/studentaid*

1.7.3.10 Student Wellness Hub

The Student

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

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

- *section 1.7.4.1: Career Planning Service (CaPS)*
- *section 1.7.4.2: 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 Services*

1.7.4.1 Career Planning Service (CaPS)

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

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

1.7.4.2 International Student Services (ISS)

International Student Services Advisors are available (twice a month during the school year) to discuss immigration processes and documentation, yc94 02.9(eleph

Centennial Centre, room 124
Telephone: 514-398-7992
Website: *www.mcgill.ca/wellness-hub/access-care/macdonald-campus-care*

Downtown Campus
Brown Student Services Building, 3rd floor
Telephone: 514-398-6017
Email: *hub.clinic@mcgill.ca*
Website: *www.mcgill.ca/wellness-hub/*

1.7.5.1.1 Single-Occupancy Apartments

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

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

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-level with large, airy, common living areas.

1.7.5.2.1 Residence Fees – Macdonald Campus

Residence fees are paid separately from tuition, in accordance with regulations of the Fee Payment Option selected at the time of signing a Residence Lease.

Laird Hall: A co-ed residence that provides accommodation for undergraduate, graduate, and Farm Management Technology students.

Rent will be charged in 8 equal monthly installments.

- Single room $537 monthly - $4,476 Annual
- Double room $489 monthly - $4,092 Annual
- Renovated Single room $554 monthly - $4,612 Annual
- Renovated Double room $505 - $4,220 Annual
- Graduate room $ 569 monthly - $4,732 Annual

Ecoresidence: Each unit is a self-contained, fully furnished apartment with two or six single-bedrooms, and large, open common living areas.

Rent will be charged in 8 equal monthly installments except for the 12 months lease.

- Duplex 20 units (40 beds) Single Room - 12 month $569 - $7008 Annual
- Duplex 20 units (40 beds) Single Room - 8 month $603 - $5,004 Annual
- Sixplex 10 units (60 beds) Single Room - 8 month $586 - $4,868 Annual

While these fees are current at time of publishing, we recommend consulting the fee sheet will be available on the Macdonald residence website at *www.mcgill.ca/students/housing/fees-applying/mac-fees* for the most up to date pricing.

There is no meal plan offered on the Macdonald Campus. Students may, however, load their *One Card* to purchase meals; refer to *www.mcgill.ca/onecard* for more information. Meals are also available on a cash basis from *the Café Twigs*, located on the ground floor between the Macdonald-Stewart Building and Barton Library. For budgeting purposes, the cost of meals for the academic year is approximately $3,500.

1.7.5.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from **August 23, 2020 to April 30, 2021**. You must vacate your room at the end of the lease term. Only under exceptional circumstances will you be granted permission to arrive prior to the beginning date of the lease or remain in residence during the summer months. In these cases, you must apply to the *Campus Housing Office*; an additional fee will be char

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

1.7.5.2.3 Facilities for Non-Resident Students – Macdonald Campus

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

- outdoor TrekFit gym
- outdoor volleyball court
- large expanses of green space
- Mac Paddle Shack

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

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

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

1.7.7 Ombudsperson for Students

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

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

1.8.1 Access to Fee Information

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

1.8.2 Billings and Due Dates

Confirmation of Acceptance Deposit

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

These offices will decide if a fee deferral is warranted. No prior interest charges or late payment fines will be reversed; therefore, you should ensure your request is submitted before the first fee payment for the term is due.

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

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

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 > General Tuition and Fees Information.*

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

1.8.3.3 Tuition Assistance for McGill Staff

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

1.8.3.4 Staff Dependent Waivers

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

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

For more information, refer to the MUNACA Collective Agreement, or the Staff Dependent Policy at *www.mcgill.ca/hr/employee-relations/policies-procedures*.

1.8.4 Documentation

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

1.8.5 Compulsory Fees

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

1.8.5.1 Student Services Fees

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

These fees are complemented by revenue from the Quebec government, the University, and the generosity of donors. They support: the Student Wellness Hub, Counselling and Tutorial Services; the Office of Religious and Spiritual Life; Career Planning Service (CaPS); Scholarships and Student Aid; International Student Services; the Office for Students with Disabilities; Campus Life & Eng

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

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

1.8.6 Administrative Charges

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

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

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

Transcripts and Diploma Charge – The University assesses a transcripts and diploma charge to all students. This entitles currently enrolled students to order transcripts free of charge and covers the costs of producing diplomas and some of the costs associated with convocation ceremonies. Students who attend their convocation may be responsible for some additional costs. A fee per official transcript is applicable if you have not been registered at McGill in the last 12 months. Please see *www.mcgill.ca/student-records/transcripts* for further information.

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

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

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

1.8.7 Other Fees

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

1.8.8 Fees and Withdrawal from the University

If you decide not to attend the term(s) in which you are registered, you must officially withdraw from the University in accordance with *section 1.1.5: University Withdrawal*. **Otherwise, you are liable for all applicable tuition and other fees.**

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

If you stop attending classes without dropping your courses, you are liable for all applicable tuition and other fees. See *section 1.1.5: University Withdrawal*.

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

1.8.8.1 Fee Refund Deadlines

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

Note for Graduate and Postdoctoral Studies

1.8.8.1.4 Winter Term – after January 26

No refund.

* Includes tuition and compulsory student fees.

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

add/drop deadline and you w

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

1.8.10.3 External Scholarships

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

Students may need an anticipated scholarship to reduce their balance owing for a given term. If so, email *studen 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 to the fees covered by the deferral. The length of time that a fee deferral is in effect 1 1580j1 0 0 1 267.045 5sdefptemberc

Course Number	Course Title	Credits	Notes
CEAP 150	Critical Analysis and Composition	3	Instructor permission required
CEAP 250	Research Essay and Rhetoric	3	
CESL 299	ESL: Academic English Seminar	3	
CESL 300	ESL: Academic English 2	3	Placement test required (see *www.mcgill.ca/mwc* for details)
CESL 400	ESL: Essay & Critical Thinking	3	Placement test required (see *www.mcgill.ca/mwc* for details)
CESL 500	ESL: Research Essay and Rhetoric	3	Placement test required (see *www.mcgill.ca/mwc* for details)
CCOM 200	Introduction to Creative Writing	3	
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 under

General Inquiries: *mwc@mcgill.ca*

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

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

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

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

Inquiries concerning CCOM 206, CCOM 314, CCOM 315, and CCOM 614 should be directed to:

Prof. Diane Dechief
Email: *diane*

3459 rue McTavish
Montreal QC H3A 0C9
Telephone: 514-398-4711
Email: *refdesk.archives@mcgill.ca*
Website: *www.mcgill.ca/library/branches/mua*

1.10.4 Redpath Museum

The Redpath Museum is an academic unit of McGill University. Its mission is to foster understanding and appreciation of the diversity of our biological, geological, and cultural heritage through scientific research, collections-based study, and education. Its collections have been growing for over a century, and provide resources for research and for graduate and undergraduate education in biology, geology, anthropology, and other fields. Its largest collections include fossils from the ancient sea floor of eastern Quebec, the oldest land plants, a vast range of minerals, molluscs from around the world, Egyptian and classical antiquities, and artifacts from Central Africa. The Museum also houses research laboratories and classrooms.

The Museum welcomes McGill students and staff to visit its permanent exhibit, which presents the history of life through the ages illustrated by material from Quebec and neighbouring regions, as well as displays that feature the mineral and mollusc collections. The Museum also features a world cultures gallery devoted to cultures throughout the world, including ancient Egypt, classical Greece and Rome, Asia, and Africa.

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

1.10.5 McCord Museum of Canadian History

The McCord Museum houses one of the finest historical collections in North America. It possesses some of Canada's most significant cultural treasures, including the most comprehensive collection of clothing—comprising over 18,845 garments or accessories—made or worn in Canada; an extensive collection of First Nations artifacts—the most important of its kind in Quebec with a corpus of over 15,800 objects from across Canada; and the renowned Notman Photographic Archives, which contain over 1,300,000 historical photographs and offers a unique pictorial record of Canada from pre-Confederation to the present. The McCord also houses paintings by renowned artists such as Louis Dulongpré, James Duncan, Cornelius Krieghoff, and Robert Harris. The Museum's Textual Archives include some 262 linear metres of documents relating to Canadian history. Finally, the McCord's *website* features award-winning virtual exhibitions, innovative learning resources, and a vast, searchable database of information on the Museum's collections.

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

Researchers are welcome by appointment.

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

1.10.6 Lyman Entomological Museum and Research Laboratory

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

Telephone: 514-398-7914
Website: *www.mcgill.ca/historicalcollections/departmental/lyman*

1.10.7 Other Historical Collections

In addition to the McGill museums, there are other collections and exhibits of a specialized nature curated by McGill's **Heritage Advisory Committee**.

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

For more information, and to view the full list of historical collections at McGill, please visit *www.mcgill.ca/historicalcollections*.

1.11 The University

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

1.11.1 History

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

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

United Theological College of Montreal

3521 University Street, Montreal QC H3A 2A9
Principal: Philip Joudrey; B.A., M.Div

Members
Michael T. Boychuk; B.Com.(McG.)
Peter Coughlin; B.Com.(Car.), M.B.A.(W. Ont.)
Ronald Harry Critchley; B.A.(C'dia-Loyola), M.A.(York)
Alan Desnoyers; B.Com.(McG.)
Claude Généreux; B.Eng.(McG.), M.A.(Oxf.)
Stephen Halperin; B.C.L., LL.B.(McG.)
David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina)
Tina Hobday; B.C.L., LL.B.(McG.)
Ehab Lotayef; B.Eng.(Ain Shams)
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

Deans	
Robert Leckey; B.A.(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**
Susan Rvachew; B.Sc.(UAlberta), M.Sc., Ph.D.(Calg.)	**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**
Anita Gagnon; B.Sc.(CUA), M.P.H.(Johns Hop.), Ph.D.(McG.)	**Nursing**
Laurie Snider; B.Sc.(O.T.)(McG.), M.A.(Br. Col.), Ph.D.(Tor.)	**Physical & Occupational Therapy**
Timothy Evans, Ph.D.(Oxf.), M.D.(McM.)	**Population & Global Health**
Garth W. Green; M.A.(Boston), M.A.(KU Leuven), Ph.D.(Boston)	**Religious Studies**
Nico Trocmé; B.A., M.A., Ph.D.(Tor.)	**Social Work**
Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.) (*Interim*)	**Urban Planning**
Christopher Ragan; B.A.(Vic., BC), M.A.(Qu.), Ph.D.(MIT)	**Public Policy**

2 Faculty of Agricultural and Environmental Sciences

2.1 Dean's Welcome

To Graduate Students and Postdoctoral Fellows:

Welcome to Graduate and Postdoctoral Studies (GPS) at McGill. You are joining a community of world-class researchers and more than 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

2.2 Graduate and Postdoctoral Studies

2.2.1 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)**

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

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A *section 1.2.8: leave of absence* for parental or health reasons may extend the eligibility period. Leaves for other reasons, including vacation, do not impact the eligibility period.

   ii. Some McGill postdocs have dual status as both students and employees (unionized or non-unionized). Consult the *Graduate and Postdoctoral Studies website* for definitions of Postdoctoral Fellows, Postdoctoral Scholars and Postdoctoral Researchers.

   iii. Postdocs must conduct research under the supervision of a McGill professor (including Adjunct Professors), qualified in the discipline in which training is being provided and with the ability to fulfil supervisory responsibilities and act as a mentor for career development. Postdocs are expected to engage primarily in research with minimal teaching or other responsibilities.

2. **Registration**

   i. Postdocs must *register* annually with the University through Enrolment Services. Registration will be limited to postdocs who fulfil the definition above, and who meet the eligibility criteria as stipulated on the *Graduate and Postdoctoral Studies website*.

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

   iii. Leaves of absence 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*).

3. **Appointment, Funding, Letter of Agreement**

   i. Postdoctoral appointments may not exceed the registration eligibility period as defined above.

   ii. In order to be registered, the postdoc must be assured of financial support other than from personal means during their stay at McGill University. This amount must be equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies or the collective agreement, as applicable. Funding during parental leave is subject to the conditions of the funding agency or the collective agreement, as applicable.

   iii. Postdocs require a *Letter of Agreement for Postdoctoral Education* signed by the postdoc, the supervisor, and the department/unit head or delegate.

   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their postdoctoral funding as course lecturers. This applies to all postdocs, except those for whom teaching is part of the award.

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 or the collective agreement. This applies to all postdocs, including those whose funding does not come from the Canadian research councils.

4. **Privileges**

i. Postdocs hav

- 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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

2.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

2.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

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

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

2.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of 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 indi

- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

2.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

2.10 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

2.11 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

2.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2020–2021 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at any time throughout the year.

2.12.1 Agricultural Economics

2.12.1.1 Location

Department of Agricultural Economics/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. Attention is given to:

- the development of analytical skills in Applied Economics related to agriculture, environment, and ecological economics;
- Environmental and Resource Economics;
- International Agricultural Development;
- Farm Management, Production, and Finance.

The program prepares graduates for rewarding careers in research, analysis, and decision-making in academia; private and NGO sectors; and government. For more information on the **M.Sc. in Agricultural Economics**, please refer to *section 2.12.7: Natural Resource Sciences*. Further details can also be found at *www.mcgill.ca/nrs/academic/graduate/agricultural-economics*.

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2.12.1.3.3 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 Agricultural Economics and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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

Professor

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

Associate Professor

N. Kosoy; B.Sc.(USB), M.Sc., Ph.D.(Autonoma, Barcelona)

Assistant Professors

M.K. Doidge; B.Sc., B.A., M.Sc.(Guelph), Ph.D.(Mich. St.)

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*
Website: *www.mcgill.ca/animal*

2.12.2.2 About Animal Science

The Department of Animal Science provides exciting challenges to graduate students in the areas of:

- Animal Breeding and Genetics
- Animal Models for Human Medical Applications
- Dairy Cattle Welfare

- Epigenetic Modelling
- Food Safety
- Genome Editing (CRISPR tools)
- Large-data Analyses
- Metabolomics
- Reproductive Physiology
- Ruminant and Non-ruminant Nutrition and Metabolism

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

Departmental researchers have excellent wet-lab facilities at their disposal; large-animal studies can be carried out at the Large Animal Research Unit on the Macdonald campus farm, where other livestock species are available for research trials as well. Research can make use of the Small Animal Research Unit for studies involving rodent animal models, guinea pigs, neonatal piglets, and rabbits. Expertise is also available in applied information systems, management-software development, and large-scale data analyses. Close collaboration with the *Quebec Centre for Expertise in Dairy Production* (*Valacta*) allows for large-scale data-mining projects, software dev

All candidates are required to have a B.Sc. degree or equivalent.

Ph.D.

Candidates are normally required to have an M.Sc. degree in an area related to the chosen field of specialization for the Ph.D. program.

Qualifying Students

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

Financial Aid

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

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 detailed application procedures.

2.12.2.3.2.1 Additional Requirements

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

- Acceptance to all programs depends on a staff member agreeing to serve as the student's supervisor and the student obtaining financial support.
- The GRE – not required, but highly recommended.

2.12.2.3.3 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 Animal Science and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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*:	Feb. 15*	Aug. 31*	Oct. 15*	Oct. 15*
Summer Term:	N/A	N/A	N/A	N/A

* Admission to the Winter term is open for thesis programs only.

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

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

2.12.2.4 Animal Science Faculty

Chair

Raj Duggavathi; B.V.Sc., M.V.Sc.(B'lore), Ph.D.(Sask.)

Emeritus Professors

Roger B. Buckland; B.Sc.(Agr.), M.Sc.(McG.), Ph.D.(Md.)

Eduardo R. Chavez; Ing.Agr.(Chile), M.Sc., Ph.D.(Calif., Davis)

Eugene Donefer; B.Sc., M.Sc.(Cornell), Ph.D.(McG.)

John F. Hayes; B.Sc., M.Sc.(Dublin) Ph.D.(N. Carolina St.)

Urs Kühnlein; B.Sc.(ETH Zurich), Ph.D.(Geneva)

Emeritus Professors
Sherman Touchb

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

Complementary Courses (30 credits)

15-30 credits from the following:

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

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

2.12.2.7 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 approaches to improve the sustainability of agricultural systems through specialized coursework and a research project. The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in sustainable animal production with allied areas of agricultural resource utilization.

Research Project (15 credits)

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

Required Courses (12 credits)

ANSC 555	(3)	The Use and Welfare of Animals
BREE 533	(3)	Water Quality Management

IGFS 611	(3)	Advanced Issues on Development, Food and Agriculture
PLNT 602	(3)	Advances in Agronomy

Complementary Courses (18 credits)

3 credits from the following list:

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

section 2.12.3.5: Master of Science (M.Sc.) Bioresource Engineering (Thesis) (46 credits)

This option for the M.Sc. degree is oriented toward individuals who intend to develop a career in bioresource engineering research. The research areas include: plant and animal environments; ecological engineering (ecosystem modelling, design, management and remediation); water resources management (hydrology, irrigation, drainage, water quality); agricultural machinery, mechatronics and robotics; food engineering and bio-processing; post-harv

section 2.12.3.13: Doctor of Philosophy (Ph.D.) Bioresource Engineering: Environment

The Ph.D. Bioresource Engineering: Environment – MSE Option is coordinated through the McGill School of Environment (MSE). This option is intended for students who want to take an interdisciplinary approach in their graduate research on environmental issues. Students will learn how to transfer knowledge into action and develop an appreciation for the roles of science, politics, economics, and ethics with regard to the environment.

2.12.3.3 Bioresource Engineering Admission Requirements and Application Procedures

2.12.3.3.1 Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply. Candidates should indicate in some detail their fields of special interest when applying for admission. An equivalent cumulative grade point average (CGP

	Application Opening Dates		Application Deadlines	
Winter Term*:	Feb. 15*	Aug. 31*	Aug. 31*	Aug. 31*
Summer Term:	N/A	N/A	N/A	N/A

* Admission to the Winter term is open for thesis programs only.

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

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

2.12.3.4 Bioresource Engineering Faculty

Chair

Viacheslav I. Adamchuk

Graduate Program Director

G.S. Vijaya Raghavan

Associate Graduate Program Director

Valérie Orsat

Emeritus Professors

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

Robert Kok; B.E.Sc., Ph.D.(UWO)

Professors

Viacheslav I. Adamchuk; B.Sc.(NUBiP), M.Sc., Ph.D.(Purd.)

Chandra A. Madramootoo; B.Sc.(Agr.Eng.), M.Sc., Ph.D.(McG.), D.Sc.(Guelph) (*James McGill Professor*)

Michael O. Ngadi; B.Eng.(Agr.Eng.), M.A.Sc., Ph.D.(Dal.Tech.) (*James McGill Professor*)

Valérie Orsat; B.Sc., M.Sc., Ph.D.(McG.)

Shiv O. Prasher; B.Tech., M.Tech.(Punj.), Ph.D.(Br. Col.), LL.D.(Dal.) (*Distinguished James McGill Professor*)

G.S. Vijaya Raghavan; B.Eng.(B'lore), M.Sc.(Guelph), Ph.D.(Colo. St.), D.Sc.(TNAU), D.Sc.(UAS Dharwad) (*James McGill Professor*)

Associate Professors

Jan Adamowski; B.Eng.(RMC), M.Phil.(Camb.), M.B.A.(WUT, LBS, HEC Paris, NHH), Ph.D.(WUT) (*Liliane and David M. Stewart Scholar in Water Resources*) (*William Dawson Scholar*)

Grant Clark; B.Sc.(Alta.), M.Sc., Ph.D.(McG.)

Marie-Josée Dumont; B.Eng, M.Sc.(Laval), Ph.D.(Alta.) (*William Dawson Scholar*)

Mark Lefsrud; B.Sc.(Sask.), M.Sc.(Rutg.), Ph.D.(Tenn.) (*William Dawson Scholar*)

Zhiming Qi; B.Sc., M.Sc.(China Agr.), Ph.D.(Iowa St.) (*James H. Brace Associate Professor*)

Assistant Professor

Abdolhamid Akbarzadeh Shafaroudi; B.Sc.(IUT, Iran), M.Sc.(AUT, Iran), Ph.D.(New Br.)

Adjunct Professors

Luis Del Rio; B.Sc., M.Sc.(S. Fraser), Ph.D.(Br. Col.)

Boris Tartakovsky; M.Sc., Ph.D.(Moscow St.)

Faculty Lecturers

Alice Cherestes; B.Sc., M.Sc.(QC, CUNY), Ph.D.(CUNY)

David Titley-Peloquin; B.Sc., Ph.D.(McG.)

Research/Academic Associates

Yvan Gariepy; B.Sc., M.Sc.(McG.)

Ebenezer Kwofie; B.Sc.(KNUST), M.Sc.(Borås), Ph.D.(McG.)

Li (Laura) Liu; B.Sc., M.Sc.(Harbin Inst. Tech.), Ph.D.(PolyU, Hong Kong)

Darwin Lyew; B.Sc., M.Sc., Ph.D.(McG.)

Technical

Scott Manktelow

2.12.3.5 Master of Science (M.Sc.) Bioresource Engineering (Thesis) (46 credits)

This option for the M.Sc. degree is oriented toward individuals who intend to develop a career in bioresource engineering research.

Thesis Courses (32 credits)

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

Required Courses (5 credits)

BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication

Complementary Courses (9 credits)

500-, 600-, or 700-level courses in bioresource engineering and other fields to be determined in consultation with the Research Director.

2.12.3.6 Master of Science (M.Sc.) Bioresource Engineering (Thesis): Environment (46 credits)

The M.Sc. in Bioresource Engineering; (Thesis) Environment is a research program offered in collaboration with the McGill School of Environment. As a complement to the unit’s expertise, the program considers how various dimensions (scientific, social, legal, ethical.) interact to define environment and sustainability issues.

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	(3)	M.Sc. Thesis 8

Required Courses (8 credits)

BREE 651	(1)	Departmental Seminar M.Sc. 1
BREE 652	(1)	Departmental Seminar M.Sc. 2
BREE 699	(3)	Scientific Publication
ENVR 615	(3)	Interdisciplinary Approach Environment and Sustainability

Complementary Courses (6 credits)

3-6 credits from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

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 en

BREE 672	(6)	Project 2

Required Courses (2 credits)

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

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

Required Courses (9 credits)

BREE 533	(3)	Water Quality Management
CHEE 591	(3)	Environmental Bioremediation
CIVE 615	(3)	Environmental Engineering Seminar

Complementary Courses (19 credits)

Data Analysis Course

3 credits from the following:

AEMA 611	(3)	Experimental Designs 1
CIVE 555	(3)	Environmental Data Analysis
PSYC 650	(3)	Advanced Statistics 1

Toxicology Course

3 credits from the following:

OCCH 612	(3)	Principles of Toxicology
OCCH 616	(3)	Occupational Hygiene

Water Pollution Engineering Course

4 credits from the following:

CIVE 651	(4)	Theory: Water / Wastewater Treatment
CIVE 652	(4)	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 551	(3)	Environmental Decisions
GEOG 601	(3)	Advanced Environmental Systems Modelling

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 approv

2.12.4.3 Biotechnology Admission Requirements and Application Procedures

2.12.4.3.1 Admission Requirements

Candidates for the M.Sc.(Applied) in Biotechnology must possess a bachelor’s degree in biological sciences or equivalent with a minimum cumulative grade point average (CGPA) of 3.2/4.0, as well as all prerequisites or their equivalents. Applicants are required to have sufficient background in biochemistry, cellular biology, and molecular biology, preferably at an advanced level for the Master's Applied.

Financial

BTEC 501	(3)	Bioinformatics
BTEC 619	(4)	Biotechnology Laboratory 2
BTEC 620	(4)	Biotechnology Laboratory 1
BTEC 621	(3)	Biotechnology Management
	(3)	Genetics and Bioethics

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

2.12.5.3 Food Science and Agricultural Chemistry Admission Requirements and Application Procedures

2.12.5.3.1 Admission Requirements

Applicants to the M.Sc. programs (thesis or non-thesis) must be graduates of a university of recognized reputation and hold a B.Sc. in Food Science or a related discipline such as Chemistry, Biochemistry, or Microbiology with a minimum cumulative grade point average (CGPA) of 3.4/4.0 (second class–upper division). Applicants to the Ph.D. program must hold an M.Sc. degree in Food Science or related areas with a minimum CGPA of 3.4 in their M.Sc. and a minimum GPA of 3.2 for the last two years of their B.Sc. degree. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

Qualifying Students

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

Financial Aid

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

2.12.5.3.2 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.

2.12.5.3.2.1 Additional Requirements

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

- Final acceptance to the M.Sc. Thesis or Ph.D. program depends on a faculty member agreeing to serve as the student's supervisor. A supervisor is not required for acceptance to the M.Sc. Non-Thesis program.
- The GRE – not required, but highly recommended.
- Proof of funding (all graduate programs, international applicants only): Documents must be provided in the application to prove that funding is available for the entire duration of the applied-for degree (including tuition, fees, surcharges, books and supplies, living and personal expenses, and any mandatory medical insurance required for the applicant's studies).
- An interview with the applicant may be requested by the Department of Food Science and Agricultural Chemistry in order to assist in the evaluation of the application.

2.12.5.3.3 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 Food Science and Agricultural Chemistry and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in adv

FDSC 626	(3)	Food Safety Risk Assessment
FDSC 634	(3)	Food Toxins & Toxicants

Research Project (12 credits)

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

Complementary Courses (15 credits)

3 credits chosen from the following:

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

12 credits chosen from the following:

AGRI 510	(3)	Professional Practice F

2.12.6 Human Nutrition

2.12.6.1 Location

School of Human Nutrition
Macdonald-Stewart Building
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7838
Email: *gradstudies.macdonald@mcgill.ca*
Website: *www.mcgill.ca/nutrition*

2.12.6.2 About Human Nutrition

In the School of Human Nutrition, cutting-edge nutrition research is conducted by 11.5 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 follo

section 2.12.6.10: Graduate Diploma (Gr. Dip.) Registered Dietitian Credentialing (30 credits)

In the School of Human Nutrition at McGill, students pursuing a Ph.D. in human nutrition have the opportunity to apply to our Graduate Diploma in R.D. Credentialing, upon completion of the Ph.D. program and upon completion of the undergraduate courses required by *l'Ordre professionnel des diététistes du Québec* (OPDQ). Additional preparatory courses for *Stages* (internships) are NUTR 513, NUTR 515, NUTR 607, and NUTR 611. This Diploma consists of two semesters of *Stage* (internship) in Clinical Nutrition, Community Nutrition, and Foodservice Management. Upon completion of the Diploma, the recipient is eligible to register and practice as a Dietitian in Quebec, as well as in other Canadian provinces and other countries.

2.12.6.3 Human Nutrition Admission Requirements and Application Procedures

2.12.6.3.1 Admission Requirements

M.Sc. Thesis and M.Sc. Applied (Project, Practicum, and Dietetics Credentialing)

Applicants must be graduates of a university of recognized reputation and hold a B.Sc. degree equivalent to a McGill degree in a subject closely related to the one selected for graduate work. Applicants must have a minimum cumulative grade point average (CGPA) in McGill University's credit equivalency of 3.2/4.0 (second class–upper division) for the M.Sc. Thesis and M.Sc. Applied during their bachelor's degree program. Eligible candidates to the M.Sc. (Applied) program may select one of three options:

1. The project option;
2. The practicum option, which is reserved for those who have completed a dietetics internship and six months of work experience and wish to further develop their skills in a particular area of practice through an advanced internship;
3. The dietetics credentialing option, for those who wish to follow a program combining courses and internship, leading to licensure as a dietitian. This program has a specific entrance CGPA requirement of 3.5/4.0.

Ph.D.

Applicants must be graduates of a university of recognized reputation and hold a B.Sc. and M.Sc. degree equivalent to a McGill degree in a subject closely related to the one selected for graduate work. Applicants must have a minimum cumulative grade point average (CGPA) in McGill University's credit equivalency of 3.2/4.0 (second class–upper division) during their bachelor's and master's degree programs. Exceptional students may apply to transfer to the Ph.D. program after one year of study in the M.Sc. (Thesis) program.

Qualifying Students

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying program if they have met the School's minimum CGPA of 3.2 out of 4.0. The courses to be taken in a Qualifying program will be prescribed by the academic unit. Qualifying students are registered in graduate studies, **but not as candidates for a degree**. Only one Qualifying year (two terms) is permitted. **Successful completion of a Qualifying program does not guarantee admission to a degree program. Students must re-apply for admission to a degree program.**

Financial Aid

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

2.12.6.3.2 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.

2.12.6.3.2.1 Additional Requirements

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

- Final acceptance to the M.Sc. (Thesis) and Ph.D. programs depends on a faculty member agreeing to serve as the student's supervisor. A supervisor is not required for acceptance to the M.Sc. (Applied) program.
- Graduate Record Exam (GRE) – The GRE is required for all Ph.D. applicants to the School of Human Nutrition who are submitting non-Canadian or non-U.S. transcripts.

	Application Opening Dates		Application Deadlines	
Fall Term:	Sept. 15	Jan. 15	Jan. 15	Jan. 15
Winter Term*:	Feb. 15*	June 1*	Oct. 1*	Oct. 1*
Summer Term:	N/A	N/A	N/A	N/A

* Admission to the Winter term is open for thesis programs only.

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

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

2.12.6.4 Human Nutrition Faculty

Director

Linda J. Wykes

Emeritus Professor

Harriet V. Kühnlein; B.S.(Penn. St.), M.S.(Ore. St.), Ph.D.(Calif.), R.D.

Timothy A. Johns; B.Sc.(McM.), M.Sc.(Br. Col.), Ph.D.(Mich.)

Professors

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

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 Epidemiolo*

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)

Researc

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

2.12.7 Natural Resource Sciences

2.12.7.1 Location

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

2.12.7.2 About Natural Resource Sciences

The Department of Natural Resource Sciences offers programs leading to **M.Sc.** and **Ph.D.** degrees in:

- Agricultural Economics (M.Sc. only)
- Entomology (Environment and Neotropical Environment options available)
- Microbiology (Bioinformatics option 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 2.12.7.8

section 2.12.7.19: Doctor of Philosophy (Ph.D.) Renewable Resources: Neotropical Environment

Please contact the Department for more information about this program.

2.12.7.3 Natural Resource Science Admission Requirements and Application Procedures

2.12.7.3.1 Admission Requirements

M.Sc. Thesis (Agricultural Economics)

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

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

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

Candidates are required to have a bachelor's degree with a minimum equivalent CGPA of 3.0/4.0 (second class–upper division) or a minimum GPA of 3.2/4.0 during the last two years of full-time university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

M.Sc. in Renewable Resources (Non-Thesis) – Environmental Assessment Option

Applications are not being accepted for the current academic year; the program is currently under review.

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

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

Qualifying Program

Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected, may be admitted to a Qualifying program if they have met the Graduate and Postdoctoral Studies minimum CGPA of 3.0/4.0. The course(s) to be taken in a Qualifying program will be prescribed by the academic unit concerned. Qualifying students are registered in graduate studies, **but not as candidates for a degree**. Only one Qualifying year is permitted. **Successful completion of a Qualifying program does not guarantee admission to 4 446.8 TR1Tj08rantee admission1araam does not**

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

2.12.7.4 Natural Resource Sciences Faculty

Chair

Brian Driscoll

Graduate Program Director

Sébastien Faucher

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.(TU 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

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

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*

Assistant Professors

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

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

Associate Member

Christopher Barrington (*School of Environment*)

David Green (*Redpath Museum*)

Adjunct Professors

Kimberly Fernie

Charles W. Greer

Baoluo Ma

Affiliate Member

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): 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.

2.12.7.8 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.

2.12.7.9 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.

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

Thesis Courses (36 credits)

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

Required Courses (9 credits)

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

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

Elective Courses (3 credits)

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

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

This program is currently not offered.

The non-thesis master's in Renewable Resources: Environmental Assessment option is normally taken over a one year cycle beginning in the Winter term and concluding in the Fall term. It is comprised of three interrelated elements: graduate-level courses, primarily given in the Winter term, a Summer term internship, and a project-related research paper, which is completed in the Fall term. The program is aimed at environmental assessment professionals and advanced environmental science scholars planning for careers in the public and private sector agencies, which guide environmental impact assessment, integrated assessment, and sustainable development in Canada and internationally. McGill's non-thesis master's in Environmental Assessment is offered in conjunction with a Memorandum of Understanding (MOU) with the United Nations Environment Program (UNEP - 2003), which designates the Faculty of Agricultural and Environmental Sciences as a UNEP Collaborating Centre on Environmental Assessment. An important component of the MOU is that the Faculty advance teaching and training through the development of course offerings that enable students to prepare for contributing to sustainable development by utilizing the excellent materials provided by UNEP and other national and international agencies.

Research Project (9 credits)

NRSC 616	(9)	Environmental Assessment Project Paper

Required Internship (15 credits)

NRSC 615	(15)	Environmental Assessment Internship

Required Courses (15 credits)

NRSC 610	(3)	Advanced Environmental Assessment
NRSC 611	(3)	Environmental Assessment Knowledge Base
NRSC 612	(3)	Environmental Assessment and Sustainable Development
NRSC 613	(3)	Strategic and Sectoral Environmental Assessment
NRSC 614	(3)	Special Topics 7

Complementary Courses (6 credits)

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

2.12.7.12 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, org

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

Elective Courses

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

2.12.7.15 Doctor of Philosophy (Ph.D.) Microbiology

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

Thesis

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

Required Courses

NRSC 701	(0)	Ph.D. Comprehensive Examination
NRSC 751	(0)	Graduate Seminar 4
NRSC 752	(0)	Graduate Seminar 5
NRSC 753	(0)	Graduate Seminar 6
NRSC 754	(0)	Graduate Seminar 7

Coursework

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

2.12.7.16 Doctor of Philosophy (Ph.D.) Microbiology: Bioinformatics

Thesis

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

Required Courses

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
NRSC 701	(0)	Ph.D. Comprehensive Examination
NRSC 751	(0)	Graduate Seminar 4
NRSC 752	(0)	Graduate Seminar 5
NRSC 753	(0)	Graduate Seminar 6
NRSC 754	(0)	Graduate Seminar 7

Complementary Courses

6 credits from the following courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics

COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

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

2.12.7.17 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.

2.12.7.18 Doctor of Philosophy (Ph.D.) Renewable Resources: Environment

The Ph.D. in Renewable Resources Environment is a research program offered in collaboration with the McGill School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis

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

ENVR 615	(3)	Interdisciplinary Approach Environment and Sustainability
NRSC 701	(0)	Ph.D. Comprehensive Examination
NRSC 754	(0)	Graduate Seminar 7

Complementary Courses (6 credits)

3-6 credits from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

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

2.12.7.19 Doctor of Philosophy (Ph.D.) Renewable Resources: Neotropical Environment

Thesis

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

Required Courses

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
NRSC 701	(0)	Ph.D. Comprehensive Examination
NRSC 751	(0)	Graduate Seminar 4
NRSC 752	(0)	Graduate Seminar 5
NRSC 753	(0)	Graduate Seminar 6
NRSC 754	(0)	Graduate Seminar 7

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

Elective Courses

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

2.12.8 Parasitology

2.12.8.1 Location

Institute of Parasitology
Macdonald Campus
21,111 Lakeshore Road

- 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, private industry, or government.

section 2.12.8.7: Doctor of Philosophy (Ph.D.) Parasitology: Bioinformatics

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

2.12.8.3 Parasitology Admission Requirements and Application Procedures

2.12.8.3.1 Admission Requirements

Candidates for either the M.Sc. or the Ph.D. thesis research degree should possess a bachelor's de

Assistant Professors

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

2.12.8.7 Doctor of Philosophy (Ph.D.) Parasitology: Bioinformatics

Thesis

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

Required Courses (13 credits)j/F0 e discipue Cour

- 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 (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. 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.

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

section 2.12.9.11: Doctor of Philosophy (Ph.D.) Plant Science: Environment

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector. This Environment 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 2.12.9.12: Doctor of Philosophy (Ph.D.) Plant Science: Neotropical Environment

This Ph.D. in Plant Science requires approximately three years for completion. Overall, the program consists of seminars and a research project leading to a thesis. Students must also complete a comprehensive examination within their first year of study. The research project is defined with the help of an advisory committee. Subsequent career paths are varied, but include work with government agencies, universities, or the private sector. This option has an added emphasis on neotropical environments, including additional courses and seminars. Part of the program takes place in Panama.

section 2.12.9.13: Graduate Certificate (Gr. Cert.) Bioinformatics (15 credits)

The Graduate Certificate in Bioinformatics is a ne

	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:	Feb. 15	Aug. 31	Aug. 31	Aug. 31
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.

2.12.9.4 Plant Science Faculty

Chair

Martina V. Stromvik

Emeritus Professors

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

Alan K. Watson; B.Sc.(Agr.), M.Sc.(Br. Col.), Ph.D.(Sask.)

Professors

Pierre Dutilleul; B.Sc., M.Sc., Ph.D.(Louvain)

Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena) (*Canada Research Chair in Biomechanics of Plant Development*)

Suha Jabaji; B.Sc.(Beirut), M.Sc.(Guelph), Ph.D.(Wat.)

Ajjamada C. Kushalappa; B.Sc., M.Sc.(B'lore), Ph.D.(Flor.)

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

Donald L. Smith; B.Sc., M.Sc.(Acad.), Ph.D.(Guelph) (*Distinguished James McGill Professor*)

Associate Professors

Jacqueline C. Bede; B.Sc.(Calg.), M.Sc., Ph.D.(Tor.)

Sylvie de Blois; B.Sc.(Agr.)(McG.), M.Sc., Ph.D.(Montr.)

Jean-Benoit Charron; B.Sc.(Montr.), M.Sc., Ph.D.(UQAM)

Valérie Gravel; B.Sc.(Agr.), M.Sc., Ph.D.(Laval)

Jaswinder Singh; B.Sc.(Agr.), M.Sc.(PAU), Ph.D.(Syd.)

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

Assistant Professors

Mehran Dastmalchi; B.Sc.(Tor.) Ph.D.(UWO)

Valerio Hoyos-Villegas; B.Sc.(Caldas), M.Sc.(Missouri/Col.), Ph.D.(Mich.)

Faculty Lecturers

Caroline Begg; B.Sc.(Agr.)(McG.), M.Sc.(Sask.), Ph.D.(McG.)

David Wees; B.Sc.(Agr.), M.Sc.(McG.)

Adjunct Professors

Konstantinos Aliferis

Annick Bertrand

Olivia Wilkins; B.Sc.(Manit.), Ph.D.(Tor.)

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 (45 credits)

Thesis Courses (36 credits)

PLNT 664	(12)	M.Sc. Thesis 1
PLNT 665	(12)	M.Sc. Thesis 2
PLNT 667	(12)	MSc Thesis 3A

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): Neotropical Environment (45 credits)

Candidates must participate in the STRI seminar series when in residence in P

Thesis Courses (36 credits)

PLNT 664	(12)	M.Sc. Thesis 1
PLNT 665	(12)	M.Sc. Thesis 2
PLNT 667	(12)	MSc Thesis 3A

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (6 credits)

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

Elective Courses (3 credits)

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

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

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

N.B. this program is under revision. Please contact Ms. Carolyn Bo

Required Invitational Seminar

PLNT 690	(0)	Research Horizons in Plant Science 1

Required Courses (3 credits)

* Must be taken within one year of registering.

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
PLNT 701*	(0)	Doctoral Comprehensive Examination

Complementary Courses (6 credits)

Two courses to be chosen from the following:

BINF 511	(3)	Bioinformatics for Genomics
BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics

3.3 Important Dates

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

3.4 Graduate Studies at a Glance

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

3.5 Program Requirements

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

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

3.6 Graduate Admissions and Application Procedures

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

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

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

3.7 Fellowships, Awards, and Assistantships

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

3.8 Postdoctoral Research

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

3.8.1 Postdocs

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

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

3.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A *section 1.2.8: leave of absence* for parental or health reasons may extend the eligibility period. Leaves for other reasons, including vacation, do not impact the eligibility period.

   ii. Some McGill postdocs have dual status as both students and employees (unionized or non-unionized). Consult the *Graduate and Postdoctoral Studies website* for definitions of Postdoctoral Fellows, Postdoctoral Scholars and Postdoctoral Researchers.

   iii. Postdocs must conduct research under the supervision of a McGill professor (including Adjunct Professors), qualified in the discipline in which training is being provided and with the ability to fulfil supervisory responsibilities and act as a mentor for career development. Postdocs are expected to engage primarily in research with minimal teaching or other responsibilities.

2. **Registration**

   i. Postdocs must *register* annually with the University through Enrolment Services. Registration will be limited to postdocs who fulfil the definition above, and who meet the eligibility criteria as stipulated on the *Graduate and Postdoctoral Studies website*.

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

   iii. Leaves of absence 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*).

3. **Appointment, Funding, Letter of Agreement**

   i. Postdoctoral appointments may not exceed the registration eligibility period as defined above.

   ii. In order to be registered, the postdoc must be assured of financial support other than from personal means during their stay at McGill University. This amount must be equivalent to the minimal stipend requirement set by the University in accordance with guidelines issued by federal and provincial research granting agencies or the collective agreement, as applicable. Funding during parental leave is subject to the conditions of the funding agency or the collective agreement, as applicable.

   iii. Postdocs require a *Letter of Agreement for Postdoctoral Education* signed by the postdoc, the supervisor, and the department/unit head or delegate.

   iv. Postdocs with full responsibility for teaching a course should be compensated over and above their postdoctoral funding as course lecturers. This applies to all postdocs, except those for whom teaching is part of the award.

   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 or the collective agreement. 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 general rule, postdocs may take courses for credit as Special Students following the admissions procedures outlined at *www.mcgill.ca/gradapplicants/apply/prepare/visiting*. *Tuition and other charges* will apply.

   iv. Postdocs may be listed in the McGill directory.

   v. Access to sports facilities may be purchased on a monthly basis through McGill Athletics and Recreation.

   vi. Postdoctoral Fellows and Scholars are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged.

   vii. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

   viii. 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.

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

   x. 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.

   xi. Access to student services is granted to non-unionized postdocs, who are charged the Student Services fee in the Fall and Winter terms, through their student fee accounts.

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- to oversee and sign off on the Letter of

3.8.5 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 indi

- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
-

section 3.12.1.6: Master of Arts (M.A.) Anthropology (Thesis): Development Studies (45 credits)

The Development Studies Option (DSO) is a cross-disciplinary M.A. program that is unique in Canada, if not the world, because it is designed to provide students with a strong practical and theoretical foundation for engaging in genuinely cross-disciplinary research. The option is offered within existing M.A. and Ph.D. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. This thesis option is open to master's students specializing in development studies. Students enter through one of the participating departments and must meet the M.A. or Ph.D. requirements of that unit. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. The M.A. or Ph.D. thesis must be on a topic relating to development studies, approved by the DSO coordinating committee.

section 3.12.1.7: Master of Arts (M.A.) Anthropology (Thesis): Environment (45 credits)

The Environment option is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who

Admission to the Ph.D. program is open competitively to students with a master's degree in Anthropology. In very special circumstances, candidates with a master's degree in related disciplines may be admitted.

3.12.1.3.2 Application Procedures

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

See *University Regulations & Resources*

Associate Professors

ANTH 695	(6)	M.A. Thesis Tutorial 2
ANTH 699	(21)	M.A. Thesis

Required Course (3 credits)

INTD 657	(3)	Development Studies Seminar

Complementary Courses (9 credits)

ANTH 695	(6)	M.A. Thesis Tutorial 2
ANTH 699	(21)	M.A. Thesis

Required Course (3 credits)

WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (9 credits)

6 credits of coursework in Anthropology to be chosen at the 600 level.

3 credits of coursework at the M.A. level relating to gender/women's studies, which may be tak

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

If admitted to Ph.D. 1

3.12.2 Art History

3.12.2.1 Location

Arts Building, Room 155-B
853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada
Telephone: 514-398-4933

Website: *www.mcgill.ca/arhc*

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

- the 17th, 18th, 19th, and 20th centuries;
- East Asian;
- New Media;
- Print Culture;
- Gender and Sexuality;
- Race and Representation;
- Art historical methodologies, notably Feminism, Postcolonialism, and Queer Theory.

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 of

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 their 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

Professors

Angela Vanhaelen; B.A.(UWO), M.A., Ph.D.(Br. Col.)

Associate Professors

Darin Barney; B.A., M.A.(S. Fraser), Ph.D.(Tor.)

Jenny Burman; B.A.(C'dia), M.A., Ph.D.(York)

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

Chriscinda Henry; B.A.(Colo.), M.A.(Col.), Ph.D.(Chic.)

Cecily Hilsdale; B.F.A.(C'dia), M.A., Ph.D.(Chic.)

Jeehee Hong; B.A., M.A.(Yonsei), M.A., M.A., Ph.D.(Chic.)

Mary Hunter; B.A.(Qu.), M.A., Ph.D.(Lond.)

Matthew Hunter; B.A.(Reed), M.A., Ph.D.(Chic.)

Carrie Rentschler; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)

Assistant Professors

Gloria Bell; B.A.(Qu.), M.A.(Car.), Ph.D.(Br.Col.)

Bobby Benedicto; B.A.(AteneodeManilaU), M.A.(York), Ph.D.(Melb.)

Camila Maroja; B.A.(UFRJ, Brazil), M.A.(PUCRS, Brazil), Ph.D.(Duke)

Associate Members

Yuriko Furuhata, Thomas Lamarre, Andrew Piper

Affiliate Member

Robert Graham

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

The M.A. in Art History with the thesis option requires the completion of 45 credits of coursework.

The program is designed to be completed in four semesters, but may be completed in three semesters. There is a time limit to complete the M.A. degree in three years (full-time) or five years (part-time).

For further details on thesis preparation and submission consult www.mcgill.ca/gps/thesis/thesis-guidelines.

Required Courses (27 credits)

ARTH 600	(3)	Advanced Professional Seminar
ARTH 698	(12)	Thesis Research 1
ARTH 699	(12)	Thesis Research 2

Complementary Courses (18 credits)

Revision, June 2020. Start of revision.

Chosen from the following:

ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History
ARTH 617	(3)	Modern Art
ARTH 618	(3)	Art History - 1400-1900 1
ARTH 630	(3)	Directed Reading 1
		Medie

ARTH 647	(3)	Topics: Renaissance Art & Architecture 1
ARTH 648	(3)	Topics: Renaissance Art & Architecture 2
ARTH 653	(3)	Topics: Early Modern Visual Culture 1
ARTH 654	(3)	Topics: Early Modern Visual Culture 2
ARTH 660	(3)	Contemporary Art & Criticism 1
ARTH 661	(3)	Contemporary Art & Criticism 2
ARTH 673	(3)	Topics: 18th - Century Art & Architecture 1
ARTH 675	(3)	Topics: 19th - Century Art & Architecture 1
ARTH 678	(3)	Topics: 19th - Century Art & Architecture 2
ARTH 714	(3)	Directed Reading 2
ARTH 715	(3)	Research: Modern Architecture - 1750 to Present 1
ARTH 724	(3)	Art Criticism 2
ARTH 725	(3)	Methods in Art History 1
ARTH 730	(3)	Current Problems in Art History 1
ARTH 731	(3)	Current Problems in Art History 2

Revision, June 2020. End of revision.

Master of Arts (M.A.) Art Histor

Required Courses (3 credits)

ARTH 600	(3)	Advanced Professional Seminar
ARTH 701	(0)	Ph.D. Comprehensive Examination

Complementary Courses (12 credits)

Revision, June 2020. Start of revision.

Four courses chosen from the following:

ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History
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.

Revision, June 2020. End of revision.

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.

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

Students should refer to the Departmental website for information about Ph.D. residency and timing.

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Art History who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

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

Required Courses (9 credits)

ARTH 600	(3)	Advanced Professional Seminar
ARTH 701	(0)	Ph.D. Comprehensive Examination
WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Complementary Courses (9 credits)

An additional 9 credits in Art History, of which 3 credits must be a graduate option-approved 500- or 600-level ARTH course.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

3.12.3 Classics

See *section 3.12.10: History and Classical Studies*.

3.12.4 Communication Studies

3.12.4.1 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*

3.12.4.2 About Communication Studies

The graduate program in Communication Studies offers **M.A.** and **Ph.D.** degrees. The program is concerned with the study of communication phenomena through interdisciplinary training that draws on a variety of fields including cultural studies; critical media and technology studies; public policy and governance; film; and sound studies. The program strives to offer a balance of humanities and social sciences approaches to the analysis of communication, and its orientation is primarily qualitative (rather than quantitative) in nature. The M.A. and Ph.D. degrees are academic in character, and do not include professional training in journalism, organizational communication, or media production. The Communication Studies program offers courses and directs project research in preparation for the M.A.(Thesis) and Ph.D. in Communication Studies. The graduate option in Gender and Women's Studies is available as a program option, and students benefit from the resources and activity of *Media@McGill*, a hub of research and public outreach on critical issues in media, culture, and emerging technology.

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

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

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

Master's and Ph.D. Degrees

Students enter our graduate programs from a variety of disciplinary backgrounds, though all have a history of documented academic excellence and aptitude for advanced scholarly research. Over the past 30 years, the Graduate Program in Communication Studies has trained many of Canada's leading communications scholars. Graduates of the program may be found working in all levels of government, within the cultural industries, and in dozens of university Communication Studies departments around the world.

For the language requirement for M.A. and Ph.D. degrees, please see: *www.mcgill.ca/ahcs/graduate/admissions/language-requirement*.

section 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.

section 3.12.4.6: Master of Arts (M.A.) Communication Studies (Thesis): Gender and Women's Studies (45 credits)

The graduate option in Gender and Women's Studies (GWS) provides graduate students obtaining degrees in a variety of participating departments and faculties with a cross-disciplinary specialization in feminist, women's, and gender studies. Students who pursue this option obtain a graduate degree in

section 3.12.4.6: Master of Arts (M.A.) Communication Studies (Thesis): Gender and Women's Studies (45 credits)

their own department as well as an “option/concentration” in GWS. Thus, the graduate option in Gender and Women's Studies appears on a student’s transcript along with the M.A.

The option was developed by the Women's Studies program in response to needs expressed by the *Graduate Group for Feminist Scholarship* (GGFS) and to the range of inquiries the Women's Studies program regularly receives from potential students interested in graduate-level work with a feminist focus at McGill University. There are no prerequisites to enter into the option. However, undergraduate or graduate courses in gender or women’s studies provide an ideal foundation for more in-depth study of, and research in, feminist scholarship. The thesis must be on a topic centrally related to gender and/or women's studies.

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

The Ph.D. in Communication Studies offers in-depth training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy. Doctoral students pursue coursework, submit a comprehensive exam and thesis proposal, with the goal of writing a dissertation that makes an original contribution to knowledge in Communication Studies. The Ph.D. degree is academic in character, and does not include professional training in media production.

section 3.12.4.8: Doctor of Philosophy (Ph.D.) Communication Studies: Gender and Women's Studies

The graduate option in Gender and Women's Studies (GWS) provides graduate students obtaining degrees in a variety of participating departments and f

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

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.

3.12.4.8 Doctor of Philosophy (Ph.D.) Communication Studies: Gender and Women's Studies

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

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

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

Required Courses (9 credits)

COMS 616	(3)	Staff-Student Colloquium 1
COMS 702	(0)	Comprehensive Examination
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;
- cultural studies;
- film and media studies;
- gender and women's studies;
- history and literature;
- religion both institutional and popular.

The unique curriculum of East Asian Studies allows students to gain an intellectually rich, historically informed, theoretically sophisticated, and materially grounded understanding of China, Japan, and Korea as spaces of dynamic formation and transformation, all while developing proficiency in languages of the region. Graduate students may choose from a wide range of courses offered both by the Department and other departments in the Faculty of Arts, and in other faculties that encourage the development of strong intellectual connections with multiple disciplines.

The *Centre for East Asian Research* (CEAR), affiliated with the Department of East Asian Studies, actively supports and encourages community outreach. It offers a wide range of activities throughout the year such as lectures, presentations, seminars, workshops, speech contests, and cultural activities, and welcomes new associate members.

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*iBT); withnot lessthen i20ins eachof theiforurcomeponnt tcores t is rquiremdof apllapplicattssho e smohei thoguaeis ot anglish asd pho has

Director, Graduate Program

Yuriko Furuhata

Emeritus Professor

Kenneth Dean; B.A.(Brown), M.A., Ph.D.(Stan.)

Thomas Lamarre; B.Sc.(G'town), D.E.A., D.Sc.(Aix-Marseille), M.A., Ph.D.(Chic.)

Professors

Grace S. Fong; B.A., M.A.(Tor.), Ph.D.(Br. Col.)

Robin D.S. Yates; B.A., M.A.(Oxf.), M.A.(Calif.), Ph.D.(Harv.) (*joint appt. with History*)

Associate Professors

Yuriko Furuhata; B.A.(Int'l. Christian), M.A.(N. Mexico), Ph.D.(Brown)

Jeehee Hong; B.A., M.A.(Yonsei), M.A., Ph.D.(Chic.)

Gavin Walker; B.A., M.A.(Penn.), Ph.D.(Cornell) (*joint appt. with History*)

Assistant Professors

Kimberly Chung; B.A.(N'western), M.A., Ph.D. (Calif.-San Diego)

Xinyu Dong; B.A.(Inner Mongolia), M.A.(Iowa/Col.), Ph.D.(Beijing Normal/Harv.)

Gal Gvili; B.A., M.A.(Hebrew), Ph.D.(Col.)

Maria Cecilia Hwang; B.A.(Ore.), M.A., Ph.D.(Brown) *(joint appt. with IGSF)*

Lei Kwan (Rongdao) Lai; B.A.(UWest), M.A.(Qu.), Ph.D.(McG.) *(joint appt. with Religious Studies)*

Xiao Liu; B.A.(BISU, China), M.A.(Tsinghua), Ph.D.(Calif., Berk.)

Faculty Lecturers

Jennie Chang, Tomoko Ikeda, Myung Hee Kim, Joy Lin, Yasuko Senoo, Miwako Uesaka, Bill Wang

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

The Department only offers a thesis option. The M.A. program with thesis includes:

a) four 3-credit graduate courses (12 credits);

b) one graduate 3-credit seminar in theory/methodology (3 credits);

c) one graduate 6-credit seminar or two graduate 3-credit seminars (6 credits); and

d) thesis (24 credits).

Language Courses:

1. A maximum of 6 credits of language courses at the 500 level or in a classical Asian language may be counted toward course requirements.

2. Students must have fourth-level language equivalency by the completion of their M.A. program.

3.12.5.6 Doctor of Philosophy (Ph.D.) East Asian Studies (Ad Hoc)

The Graduate Studies Committee will assign an advisory committee to advise the student and specify the student's program of study.

Exceptional students with appropriate background at the undergraduate level may be admitted directly into the Ph.D. program.

3. Ph.D. Comprehensive Evaluation – The student is required to pass the Comprehensive Evaluation within one year after completing coursework. Exceptions have to be approved by the Graduate Program Director.

4. Doctoral Dissertation – A thesis proposal (15-25 pages) should be submitted within six months after successful completion of the Ph.D. Comprehensive Evaluation, after consultation with the Graduate Program Director and the thesis supervisor. Before submission of the dissertation, candidates are expected to spend time in Asia researching their project.

Thesis

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

3.12.6 Economics

3.12.6.1 Location

Department of Economics
Stephen Leacock Building, Room 414
855 Sherbrooke Street West
Montreal QC H3A 2T7
Canada
Telephone: 514-398-3030
Email: *graduate.economics@mcgill.ca*
Website: *www.mcgill.ca/economics*

3.12.6.2 About Economics

The Department of Economics offers **M.A.** and **Ph.D.** programs that attract students from all over the world. Faculty members conduct research in numerous areas of economics, with particularly strong representation in the fields of econometrics, empirical microeconomics including development, and natural resources. The Department counts among its members a Canada Research Chair, two James McGill Professors, one William Dawson Scholar, an Officer of the Order of Canada, two Fellows of the Royal Society of Canada, and one Endowed Chair.

Lectures and e

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

F

3.12.6.3.4 Application Dates and Deadlines

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

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

Associate Professors

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

Sonia Laszlo; B.A.(Ott.), M.A.(UWO), Ph.D.(Tor.)

Markus Poschke; M.Sc.(Maastricht), M.A.(Sciences Po), M.Res., Ph.D.(EUI) (*William Dawson Scholar*)

Christopher T.S. Ragan; B.A.(Vic., BC), M.A.(Qu.), Ph.D.(MIT)

Erin Strumpf; B.A.(Smith), Ph.D.(Harv.) (*William Dawson Scholar*)

Licun Xue; B.Eng., M.Eng.(Tianjin), M.A., Ph.D.(McG.)

Assistant Professors

Francesco Amodio; B.Sc.(Siena); M.Sc.(Barcelona GSE), Ph.D.(UPF)

Leonie Baumann; B.A.(Siegen); M.Sc., Ph.D.(Hamburg)

Saraswata Chaudhuri; B.Sc.(Presidency Univ., Kolkata), M.S.(ISI, India), Ph.D.(Wash.)

Nicolas Gendron-Carrier; B.Sc., M.Sc.(Montr.), Ph.D.(Tor.)

Laura Lasio; B.Sc.(Bocconi), M.Phil.(TSE)

Fernando Saltiel; B.A., M.P.P., Ph.D.(Md.)

Faculty Lecturers

Paul Dickinson; B.A.(Essex), M.A.(Wash.)

Mayssun El-Attar Vilalta; B.A.(Barcelona), M.Res., Ph.D.(EUI)

Kenneth MacKenzie; B.A.(Dal.), M.Sc.(McG.)

Ling Ling Zhang; B.Eng.(Shanghai Jiao Tong), M.A.(SWUFE), Ph.D.(McG.)

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

** This program is currently not offered. **

Thesis Courses (30 credits)

ECON 650	(3)	Research 1
ECON 651	(3)	Research 2
ECON 652	(3)	Research 3
ECON 653	(3)	Research 4
ECON 670	(6)	Thesis 1
ECON 671	(6)	Thesis 2
ECON 672	(6)	Thesis 3

Required Courses (6 credits)

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

Complementary Courses (12 credits)

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

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

A minimum of 6 credits must be taken in the same field.

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

The Master of Arts in Economics; Non-Thesis program provides graduate training in theoretical and applied economics, and in econometric methods.

Research Project (18 credits)

ECON 650	(3)	Research 1
ECON 651	(3)	Research 2
ECON 680	(3)	M.A. Report 1
ECON 681	(3)	M.A. Report 2
ECON 682	(3)	M.A. Report 3
ECON 683	(3)	M.A. Report 4

Required Courses (15 credits)

ECON 610	(3)	Microeconomic Theory 1
ECON 620	(3)	Macroeconomic Theory 1
ECON 654	(3)	Research Methods in Economics
ECON 661	(3)	Applied Time-Series and Forecasting
ECON 664	(3)	Applied Cross-Sectional Methods

Complementary Courses (12 credits)

3-6 credits from:

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

6-9 credits 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)

The Master of Arts in Economics; Non-Thesis - Development Studies program provides graduate training in theoretical and applied economics, and in econometric methods. The focus of the research paper will be on international development issues.

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 (21 credits)

ECON 610	(3)	Microeconomic Theory 1
ECON 620	(3)	Macroeconomic Theory 1
ECON 634	(3)	Economic Development 3
ECON 661	(3)	Applied Time-Series and Forecasting
ECON 664	(3)	Applied Cross-Sectional Methods

ECON 734	(3)	Economic Development 4
INTD 657	(3)	Development Studies Seminar

Complementary Courses (6 credits)

3-6 credits from:

(either ECON 662D1/D2 or ECON 665)

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

0-3 credits of courses at the 500, 600, or 700 level, as determined by the student's area of study.

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

The Population Dynamics Option (PDO) is open to M.A. (non-thesis) students in Economics specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and a course in microeconomic methods relevant for population studies. In addition, students will take one complementary course in Economics, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars give of the semiDht.1 067 TT, whic552.S wi1 97 4941h r

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

** This program is currently not offered. **

The program complements disciplinary training with research experience applying statistical methods to Statistics Canada data (or equivalent). Students will normally complete the regular program course requirements, supplemented by further statistical courses, as advised by the option adviser, and subject to approval by the home department.

Research Project (18 credits)

ECON 650	(3)	Research 1
ECON 651	(3)	Research 2
ECON 680	(3)	M.A. Report 1
ECON 681	(3)	M.A. Report 2
ECON 682	(3)	M.A. Report 3
ECON 683	(3)	M.A. Report 4

Required Courses (12 credits)

ECON 610	(3)	Microeconomic Theory 1
ECON 620	(3)	Macroeconomic Theory 1
ECON 654	(3)	Research Methods in Economics
ECON 688	(3)	Seminar on Social Statistics

Complementary Courses (15 credits)

Must include either:

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

Additional courses at the 500, 600, or 700 level, as determined by the student's area of study.

3.12.6.10 Doctor of Philosophy (Ph.D.) Economics

The Ph.D. in Economics focuses on microeconomics, macroeconomics and econometrics. Specialization in three fields of economics is 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 (20 credits)

ECON 662D1	(3)	Econometrics
ECON 662D2	(3)	Econometrics
ECON 701	(0)	Ph.D. Comprehensive Examination
ECON 710	(3)	Selected Topics in Economics
ECON 711	(3)	Microeconomic Theory 2
ECON 712	(3)	Macroeconomic Theory 1
ECON 713	(3)	Macroeconomic Theory 2
ECON 770	(1)	PhD Research Seminar 1

ECON 771	(1)	PhD Research Seminar 2

Elective Courses (18 credits)

18 credits of elective courses at the 600 level or higher in consultation with the Graduate Program Director.

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, k

seminars. The proseminars expose students to current academic issues, theoretical propositions, and professional questions. Students may substitute for the two second-term seminars one extended supervised Optional Research Project. Courses must be chosen in order to make possible the identification of a major and a minor area of concentration.

Emeritus Professors

M.D. Bristol; A.B.(Yale), Ph.D.(Princ.)

M. Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.(Tor.)

K. McSweeney; B.A., Ph.D.(Tor.)

P. Ohlin; Fil.Mag.(Stockholm), M.A., Ph.D.(N. Mexico)

M. Puhvel; B.A., M.A.(McG.), Ph.D.(Harv.)

D. Suvin; B.A., M.Sc., Ph.D.(Zagreb), F.R.S.C.

W.C. Wees; B.A.(N'western), M.A.(Roch.), Ph.D.(N'western)

Professors

K. Borris; B.A.(Vic., BC), Ph.D.(Edin.)

M.N. Cooke; B.A.(Qu.), M.A.(Cornell), M.A., Ph.D.(Tor.)

A. Hepburn; B.A., M.A.(UWO), Ph.D.(Princ.) (*James McGill Prof. of 20th Century literature*)

E. Hurley; B.A.(McG.), M.A.(Brown), Ph.D.(CUNY)

M.A. Kilgour; B.A.(Tor.), Ph.D.(Yale) (*Molson Chair, Dept. of English*)

R. Lecker; B.A., M.A., Ph.D.(York) (*Greenshields Professor of English*)

P. Sabor; B.A.(Camb.), M.A.(Qu.), Ph.D.(Lond.) (*Canada Research Chair in 18th Century Studies*)

M. Stenbaek; B.A.(Copen.), M.A., Ph.D.(Montr.)

B. Trehearne; B.A., M.A., Ph.D.(McG.)

P. Yachnin; B.A.(McG.), M.Litt.(Edin.), Ph.D.(Tor.) (*Tomlinson Chair in Shakespeare Studies*)

Associate Professors

Four Departmental seminars

OR

two Departmental seminars and

ENGL 796	(6)	Research Project

Frenc

- Élaboration du projet de thèse et Examen préliminaire
- Thèse

Scolarité

L'admission se fait normalement au niveau de Ph. D. II. Lorsqu'un candidat, par exception, est admis en Ph. D. I, sa scolarité pendant cette année est la même que pour l'année de M.A. I (voir ci-dessus).

Ph. D. II:

Trois séminaires au choix, ainsi que les Séminaires de doctorat 1 et 2 (FREN 710 et FREN 711) qui sont obligatoires.

Ph. D. III :

Élaboration du sujet de thèse (FREN 706, 0 crédit) et Examen préliminaire (FREN 707, 0 crédit).

Le projet de thèse est soumis au Comité des études de 2e et 3e cycles et de la recherche ; puis l'Examen préliminaire, qui consiste en la rédaction et la défense orale d'un document d'une cinquantaine de pages, a lieu à une date convenue entre les intéressés, devant un jury constitué de trois professeurs (le comité-conseil).

Ph. D. IV Thèse:

Le comité-conseil, constitué au moment de l'Examen préliminaire, comprend le directeur de thèse et deux autres professeurs. Le rôle de ce comité-conseil est de suivre d'aussi près que possible le travail du candidat et de discuter avec lui de l'orientation de ses recherches.

La soutenance de la thèse a lieu devant un jury composé de cinq ou sept membres votants : le représentant de l'unité d'enseignement (directeur ou délégué), directeur(s) de thèse, l'examinateur de thèse interne, un autre membre de l'unité et un membre externe (qui ne fait pas partie de l'unité).

section 3.12.8.5: Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire) (45 crédits) (45 credits)

Les étudiants inscrits dans nos programmes de maîtrise sont détenteurs d'un baccalauréat avec spécialisation dans la discipline (ou l'équivalent). La maîtrise avec mémoire comprend deux trimestres de séminaires, à l'issue desquels les étudiants déposent un projet de mémoire dans le domaine de leur choix, puis consacrent leur deuxième année de programme à la rédaction du mémoire.

Les deux premières sessions du programme de maîtrise sont consacrées à la scolarité, pour les étudiants inscrits à temps complet; ils doivent alors suivre 6 séminaires de 3 crédits (dont le FREN 697) et préparer leur sujet de mémoire (FREN 696 : 6 crédits). Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

L'étudiant peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire.

section 3.12.8.6: Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (45 crédits) (45 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 Département des littératures de langue française, de traduction et de création. En plus des deux cours obligatoires suivis au Département, les étudiants doivent suivre un cours de 3 crédits réservé aux étudiants de cette option. Parmi les cours au choix, les étudiants doivent suivre deux cours de 3 crédits chacun qui ont été approuvés par l'option et qui portent sur des questions reliées au genre et aux recherches et méthodologies féministes. Leur mémoire doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes.

Les deux premières sessions du programme de maîtrise sont consacrées à la scolarité, pour les étudiants inscrits à temps complet; ils doivent alors suivre 6 séminaires de 3 crédits (dont le FREN 697) et préparer leur sujet de mémoire (FREN 696 : 6 crédits). Les étudiants inscrits à mi-temps doivent s'inscrire à un minimum de deux séminaires par session.

L'étudiant peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire.

section 3.12.8.7: Maîtrise ès arts (M.A.) Langue et littérature françaises (sans mémoire) (48 crédits) (48 credits)

La maîtrise sans mémoire comprend trois trimestres de séminaires après quoi les é

3.12.8.3 Conditions d'admission au Département des littératures de langue française, de traduction et de création

3.12.8.3.1 Conditions d'admission

Propédeutique

Peuvent être admis en Propédeutique les étudiants titulaires d'un B.A. qui ont une formation partielle en littérature, et qui sont alors tenus de s'inscrire à temps complet à un programme de 8 cours de premier cycle, établi lors de leur inscription.

M.A.

Pour être admis directement en M.A. I, le candidat doit être titulaire d'un B.A. avec spécialisation en littérature française, québécoise ou francophone, ou en traduction (« *Honours* »), ou d'un B.A. avec double spécialisation (« *Joint Honours* ») ou l'équivalent. Le candidat doit également présenter un très bon dossier académique, soit une moyenne d'au moins 75 %; le B.A. ne donne pas automatiquement droit à l'admission.

Ph. D.

Pour être admis au programme de Ph. D., le candidat doit satisfaire aux conditions suivantes :

1. Être titulaire d'un M.A. en littérature française, québécoise ou francophone, ou l'équivalent; avoir obtenu au cours de sa scolarité de maîtrise une moyenne d'au moins 75 %.
2. Présenter un projet de recherche, en français, indiquant avec une certaine précision le domaine et la méthodologie de la recherche qu'il envisage de poursuivre pour sa thèse de doctorat et le nom du professeur sous la direction duquel il souhaite travailler. La Commission des admissions sera mieux à même de juger, d'après ce projet, du sérieux du candidat et de ses aptitudes à la recherche littéraire avancée.

3.12.8.3.2 Demande d'admission

Le formulaire de demande d'admission par le web est disponible pour tous les candidats aux études supérieures à l'adresse suivante : *www.mcgill.ca/gradapplicants/apply*îéedres deTj/F5 8.1 Tf()Tj/F1 8.1 Tf(tabll.Tj/F5 8.1 Tf()Tj/F1 8.1 Tf(e.srecltisTj1 0 0 1 2614657 5473.86Tm(P)Tj1 0 0 1 261.5286

3.12.8.4 Professeurs du Département des littératures de langue française, de traduction et de création

Directeur

P. Brissette; M.A.(Montr.), Dr. Phil. & Lettres(McG.)

Directeur des études de 2e et 3e cycles et de la recherche

M. Biron; M.A.(Montr.), Dr. Phil. & Lettres(ULiège)

Professeurs émérites

M. Angenot; L. Phil. Romane, Dr. Phil. & Lettres(ULB), M.S.R.C. (*James McGill Professor*)

G. Di Stefano; Dr. ès L.(Turin), Dipl. Phil., Dr. 3e Cy.(Paris IV)

J.-P. Duquette; L. ès L.(Montr.), Dr. 3e Cy.(P8o Tj1 (PP

Cours complémentaires (15 crédits)

5 séminaires; un maximum de 6 crédits peuvent être suivis dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

Les séminaires suivants sont fortement recommandés aux étudiants qui ont l'intention de présenter un mémoire d'écriture littéraire.

FREN 609	(3)	Atelier de création littéraire
FREN 611	(3)	L'expérience littéraire

Revision, July 2020. End of revision.

3.12.8.6 Maîtrise ès arts (M.A.) Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (45 crédits) (45 credits)

Revision, July 2020. Start of revision.

Mémoire (24 crédits)

FREN 699	(24)	M.A. Thesis

Cours obligatoires (9 crédits)

FREN 696	(3)	Élaboration projet de mémoire
FREN 697	(3)	Méthodologie et théorie littéraires
WMST 601	(3)	Feminist Theories and Methods

rature françaises (sans mé

Cours complémentaires

12 crédits au 500 niveau ou plus.

Six crédits de séminaires au choix parmi les séminaires du Département ou à l'extérieur du Département qui ont été approuvés par l'option.

Six crédits de séminaires au choix, dont un peut être suivi à l'extérieur du Département.

Revision, July 2020. End of revision.

3.12.8.7 Maîtrise ès arts (M.A.) Langue et littérature françaises (sans mémoire) (48 crédits) (48 credits)

Projet de rec

montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Épreuve d'anglais

Tous les étudiants de Ph. D. doivent réussir, avant le dépôt de leur thèse, une épreuve destinée à vérifier leur connaissance de la langue anglaise (FREN 790).

Peuvent être dispensés de cette épreuve les traducteurs professionnels et les étudiants qui ont fait des études antérieures dans des collèges ou des universités anglophones, à condition que leur programme ait comporté des cours donnés en anglais. Le fait d'avoir suivi un ou plusieurs cours de traduction ne suffit pas.

Aucune dispense n'est automatique. Les demandes de dispense doivent être soumises par écrit au Comité des études de 2e et 3e cycles et de la recherche.

Cours obligatoires (3 crédits)

FREN 706	(0)	Élaboration du sujet de thèse
FREN 707	(0)	Examen préliminaire
FREN 710	(1.5)	Séminaire de doctorat 1
FREN 711	(1.5)	Séminaire de doctorat 2
FREN 790	(0)	Language Requirement

Cours complémentaires (6 ou 9 crédits)

6 ou 9 crédits de séminaires au choix de niveau 600 ou plus.

Cours optionnel (0 ou 3 crédits)

Les étudiants de doctorat peuvent obtenir un maximum de 3 crédits en suivant des cours hors du Département, que ce soit à McGill (cours décrits dans l’annuaire des Études supérieures et postdoctorales (‘University Calendar of Graduate and Postgraduate Studies’) ou dans une autre université. L’étudiant qui choisit cette option doit obtenir l’autorisation du Directeur des études de 2e et 3e cycles et de la recherche, autorisation qui ne sera accordée que si les cours en question cadrent avec son programme d’études et sont du niveau approprié.

Doctorat (Ph./F1 8 0 11

Cours complémentaires (3 crédits)

Un séminaire (3 crédits) au choix de niveau 500 ou plus parmi les séminaires du Département qui ont été approuvés par l'option et qui portent sur les femmes et le genre. Ce cours ne peut pas être suivi à l'extérieur du Département.

3.12.9 Geography

3.12.9.1 Location

Department of Geography
Burnside Hall
805 Sherbrooke Street West, Room 705
Montreal QC H3A 0B9
Canada
Telephone: 514-398-4111
Fax: 514-398-7437
Email:

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

section 15.12.6.7: Master of Science (M.Sc.) Geography (Thesis): Neotropical Environment (45 credits)

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 coursework on gender and women's studies and issues in feminist research and methods. It includes a thesis centrally related to gender and/or women's studies; the comprehensive examination; required courses in Geography and Women's Studies; and complementary courses, one of which must pertain to gender and/or women's issues.

section 3.12.9.13: Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Ph.D. students offered in association with several university departments, the *McGill School of Environment*, and the *Smithsonian Tropical Research Institute* (STRI-Panama) and includes the thesis; comprehensive examination; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

3.12.9.3 Geography Admission Requirements and Application Procedures

3.12.9.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions in *University Regulations & Resources* > *Graduate* > *section 1.4: Graduate Admissions and Application Procedures*, but with primary undergraduate specialization in a cognate field, may be admitted to the M.A. or M.Sc. degree in Geography in certain circumstances. In general, they, and others who have deficiencies in their preparation but are otherwise judged to be acceptable, will be required to register for a Qualifying program or to undertake additional courses.

Ph.D. Degree

Students who have completed a master's degree in Geography or a related discipline (with high standing) may be admitted at the Ph.D. 2 level.

On rare occasions, a student may be admitted to the Ph.D. degree without having first taken the master's degree. These students, and others who have deficiencies in their preparation but are otherwise acceptable, will be required to register for a year of coursework and/or be required to take extra courses. The normal duration of a program, including field work where required, is three years.

Normally, the Department will restrict admission to the Ph.D. program to students prepared to work in one of the fields of human or physical geography in which specialized supervision is offered. These fields, which cover a wide range of systematic areas, are listed in documents available from the Department.

3.12.9.3.2 Application Procedures

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

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

Further departmental application information is listed at *www.mcgill.ca/geography/graduate*.

3.12.9.3.2.1 Additional Requirements

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

- Research Proposal
- Letters of Reference – **two** references required for M.A. and M.Sc. programs; **three** references required for Ph.D. program
- Curriculum Vitae

3.12.9.3.3 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 Geography Department and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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.

3.12.9.4 Geography Faculty

Chair

N.T. Roulet

Graduate Program Director

M. Kalacska

Post-Retirement

S.H. Olson; M.A., Ph.D.(Johns Hop.)

Professors

P.G. Brown; M.A., Ph.D.(Col.) (*cross appt. with McGill School of Environment*)

O.T. Coomes; M.A.(Tor.), Ph.D.(Wisc. 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), 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.(LSU)

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)

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:

ENVR 519	(3)	Global Environmental Politics
	(3)	Environmental Measurement and Modelling

GEOG 631	(3)	Methods of Geographical Research
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (9 credits)

6 credits at the 500 level or above in Geography. GEOG 696 can count among these complementary credits for students with an appropriate background.

WMST 602	(3)	Feminist Research Symposium

OR one 3-credit graduate course on gender/women's issues.

Master of Arts (M.A.) Geograph

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: Environment

The Ph.D. in Geography Environment is a research program offered in collaboration with the School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define en

WMST 601	(3)	Feminist Theories and Methods
WMST 602	(3)	Feminist Research Symposium

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

3.12.9.13 Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

The Neotropical Option is offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama) and includes the thesis, comprehensive examination, required courses (9 credits) in Geography, Environment and Biology, and complementary courses (3 credits) chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science.

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

Thesis

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

Required Courses

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 developmental studies and women's studies at the M.A. level. Both M.A. and Ph.D. students can also write their thesis or research paper on the History of Medicine. The Department is composed of 40 full-time faculty members as well as a strong complement of visiting professors, faculty lecturers, and postdoctoral fellows. This array of dedicated teachers and scholars supports high-quality instruction and research across the periods of history and regions of the globe. Our professors have won many prizes for their books and articles, and their ongoing investigations are supported by the *Social Sciences and Humanities Research Council of Canada* (SSHRC), the FRQSC, CFI, the Killam Trusts, and the Mellon Foundation. The Department is home to a number of major collaborative research projects, all of which also include students. Among these are the Montreal History Group; the *Indian Ocean World Centre* (IOWC); *Quelques arpents de neige*, an environmental history group; and the French Atlantic History Group.

Classics was among the first disciplines taught at McGill College. Our students benefit from the resources of closely related disciplines and draw on the academic expertise of scholars from various backgrounds. Many awards and prizes are available for students who excel in the classroom, and both undergraduates and graduates can join professors on study tours and field projects. Students can also become members of the Classics Students Association and publish their work in the McGill Journal of Classical Studies, aptly titled *Hirundo*—Latin for "swallow," like the martlets found on the McGill coat-of-arms, ever soaring in search of knowledge.

We offer prospective students the chance to study with leading scholars in a variety of fields.

Refer to the Department of *History and Classical Studies website* for detailed regulations and information.

Degrees in History

The **M.A.** (Non-Thesis) program is normally completed in three terms, or one calendar year (Fall, Winter, and Summer). Candidates for the M.A. degree follow an individual program approved by the Department. The M.A. in History offers advanced training in the scholarly discipline of history in a variety of fields. The McGill History degree carries international prestige and cachet and contributes meaningfully to success on the job market. Careers pursued by our graduates, aside from those who have sought and found places on the faculties of colleges and universities, have included positions in the area of public history at museums and other public institutions, in libraries and archives, in the diplomatic and other branches of the civil service, and in a variety of NGOs.

section 3.12.10.5: 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.Th9i637.4.48 404.447i637.4.48 404.447i606 447 0 1 r

section 3.12.10.9: Doctor of Philosophy (Ph.D.) History

directed by the director of the major field. In all other respects, the same rules will apply to candidates in this area as apply to other Ph.D. students in History.

Degrees in Classics

section 3.12.10.10: Master of Arts (M.A.) Classics (Thesis) (45 credits)

The M.A. in Classics offers advanced training in the scholarly discipline of classical studies in a variety of fields. The thesis program emphasizes proficiency both in technical areas of the discipline, especially Greek and Latin language, and in critical reading, writing, and research skills. The McGill M.A. in Classics is designed to prepare students to enter doctoral programs and, eventually, an academic career in any of the related fields of classical studies. Graduates have also pursued successful careers in teaching, law, museum science, and branches of civil service. This program can be completed in one year, though it is normally completed in two years.

section 3.12.10.11: Master of Arts (M.A.) Classics (Non-Thesis) (45 credits)

The M.A. in Classics offers advanced training in the scholarly discipline of classical studies in a variety of fields. The non-thesis program aims to dev

	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

Associate Professors

Noelani Arista; B.A., M.A.(UH Manoa), Ph.D.(Brandeis)

Malek Abisaab; B.A.(Lebanese), M.A.(CUNY), Ph.D.(Binghamton) (*joint appt. with Institute of Islamic Studies*)

Anastassios (Tassos) Anastassiadis; B.A., M.A.(Middlebury), Ph.D.(Sciences Po, Paris) (*Papachristidis Chair in Modern Greek Studies*)

Subho Basu; B.A., M.A.(VB), M.Phil.(JNU), Ph.D.(Camb.)

Paula Clarke; B.A.(Mem.), B.A.(Oxf.), M.A.(Tor.), Ph.D.(Lond.)

Brian Cowan; B.A.(Reed), M.A., Ph.D.(Princ.)

Catherine Desbarats; B.A.(Qu.), D.Phil.(Oxf.), Ph.D.(McG.)

Nicolas Dew; B.A., M.Sc., D.Phil.(Oxf.)

Elizabeth Elbourne; B.A., M.A.(Tor.), D.Phil.(Oxf.)

Michael P. Fronda; B.A.(Cornell), M.A., Ph.D.(Ohio St.)

Charles W. Gladhill; B.A.(Mich.), M.A.(Georgia South.), Ph.D.(Stan.)

Lynn Kozak; B.A.(Col.), M.A.(Lond.), Ph.D.(Nott.)

James Krapfl; A.B.(Stan.), M.A.(CEU), Ph.D.(Calif., Berk.)

Lorenz Lüthi; Lic.Phil.I(Zürich), M.A., M.Phil., Ph.D.(Yale)

Leonard Moore; A.B., M.A., Ph.D.(Calif., Berk.)

Don Nerbas; B.A.(Winn.), M.A., Ph.D.(New Br.) (*Chair in Canadian-Scottish Studies*)

Jason Opal; B.A.(Cornell), M.A., Ph.D.(Brandeis)

Daviken Studnicki-Gizbert; B.A.(Montr.), M.Phil., Ph.D.(Yale)

Judith Szapor; B.A., M.A.(Eötvös Lóránd), Ph.D.(York)

Griet Vankeerberaula Clark

12 credits at the 500, 600, or 700 level.

No more than 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.10.6 Master of Arts (M.A.) History (Thesis): Development Studies (45 credits)

The Development Studies Option is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the Departments of Anthropology, Economics, Geography, History, Political Science, and Sociology. The Department of History and Classical Studies offers the option as either a Thesis or a Non-Thesis program. Both programs are open to M.A. students specializing in development studies. Students will take an interdisciplinary seminar and a variety of graduate-level courses on international development issues. For both the M.A.

Required Courses (12 credits)

HIST 684	(3)	Research Proposal
HIST 685	(3)	Directed Research
HIST 686	(6)	Bibliography Tutorial

Complementary Courses (18 credits)

18 credits at the 500, 600, or 700 level

6-12 credits in History of Medicine courses chosen from the following:

HIST 636	(3)	Medieval Medicine Seminar 1
HIST 637	(3)	Medieval Medicine Seminar 2
HIST 640	(3)	Modern Medicine Seminar 1
HIST 641	(3)	Modern Medicine Seminar 2
HSSM 604	(3)	History of Medicine

6-12 credits in History (non-Medicine) courses.

Up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

3.12.10.9 Doctor of Philosophy (Ph.D.) History

Thesis

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

Required Courses

HIST 701	(3)	Doctoral Seminar
HIST 702	(0)	Comprehensive Examination - Major Field
HIST 703	(0)	Comprehensive Examination - First Minor Field
HIST 704	(0)	Comprehensive Examination - Second Minor Field

Complementary Courses

A maximum of 9 credits previously completed at the graduate level, whether at McGill or elsewhere. Courses must be at the 500, 600, or 700 level. Up to 6 credits may be taken in another department.

Language Requirement

Ph.D. candidates must offer one foreign language for examination purposes. Candidates may need a reading knowledge of such other languages as are required for research purposes in their major field.The Department expects that candidates will have successfully demonstrated competence in the one required language by the end of their Ph.D. 3 year.

3.12.10.10 Master of Arts (M.A.) Classics (Thesis) (45 credits)

Revision, June 2020. Start of revision.

The M.A. in Classics (Thesis) emphasizes the writing of a major research project. This program is designed for students who are already highly proficient in ancient languages, have a stroM.AieMrojectTjn the pccs (T4 3190 1 mieMrojectTjn99.574 130.508 Tm(J)Tj Tmj1 0 0 1 322.60.53n the pccs e abil7.51 21 1 the thesi

M.A.

CLAS 500	(3)	Classics Seminar
CLAS 610	(3)	Readings in Latin Literature
CLAS 612	(3)	Topics in Latin Literature
CLAS 620	(3)	Readings in Ancient Greek Literature
CLAS 622	(3)	Topics in Ancient Greek Literature
CLAS 685	(3)	Methods Seminar

Complementary Courses (9 credits)

9 credits of 500-level or 600-level courses in Classics, Ancient History, or another classics-related discipline. Classics-related courses must be chosen in consultation with the classics graduate adviser.

A maximum of 6 credits of complementary courses may be taken outside the Department of History and Classical Studies, unless approved by the Classical Studies Committee.

Examinations

Each candidate for the MA degree must pass three exams: Ancient Greek translation, Latin translation, and classical literature. The exams will be based on a set reading list of classical texts and scholarship. The translation exams will test the student's mastery of ancient Greek and Latin; it is assumed students will require advanced proficiency in each language to pass the relevant exam. The classical literature exam will test the student's general knowledge of important authors and texts in translation and classical scholarship.

All exams will be marked pass/fail and may be taken more than once.

Exams will be taken as 0-credit courses, comparable to PhD comps exams.

Exams must be passed within two years of starting the program and within three attempts, or the student will not be allowed to continue in the program.

3.12.11 Information Studies

3.12.11.1 Location

School of Information Studies
3661 Peel Street
Montreal QC H3A 1X1
Canada
Telephone: 514-398-4204
Fax: 514-398-7193
Email: *sis@mcgill.ca*; for inquiries: *admissions.sis@mcgill.ca*
Website: *www.mcgill.ca/sis*

3.12.11.2 About Information Studies

The School of Information Studies (SIS) is a dynamic teaching and research unit engaged in the education of information professionals and scholars. The School educates individuals who make a difference in the management and design of information resources, services, and systems, finding better ways to manage, organize, access, disseminate, use, and preserve information and recorded knowledge from a human-centred perspective. As the pioneer school of its kind in Canada, SIS has been offering programs at McGill since 1897, with continuous accreditation of professional programs by the American Library Association (ALA) since 1929.

The School offers programs at the graduate level, including a Master of Information Studies and Ph.D. in Information Studies. For more information about current program offerings, please visit the School's website at *www.mcgill.ca/sis/programs*.

Research at the School is conducted in the broad domain of human-information interaction (HII), which includes three research areas:

- human-computer interaction;
- information behaviour and services; and
- information and knowledge management.

Research projects address such topics as data mining, digital curation, information classification, information preservation, knowledge management, multisensory information, and user experience.

For complete information about the School of Information Studies, please see the School's website at *www.mcgill.ca/sis*.

section 3.12.11.5: Master of Information Studies (M.I.St.) Information Studies (Non-Thesis) (48 credits)

The Master of Information Studies is a non-thesis program, designed to prepare graduates for the broad field of information studies. The program is comprised of a set of required courses and additional courses from areas of interest including: library studies, knowledge management, information and computer technologies, and archival studies, among others. The program provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; promotes the appropriate use of technology in meeting information needs; promotes research in information studies; advocates the ideal of equal access to information; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organization, and society. After completion of the degree, students may choose to pursue a career in a related field or continue on to further academic studies. The program may be completed full-time in two years or on a part-time basis to a maximum of five years.

section 3.12.11.6: Master of Information Studies (M.I.St.) Information Studies (Non-Thesis): Project (48 credits)

The Master of Information Studies – Project is a non-thesis program with a major research project, designed to prepare graduates for the broad field of information studies. The program is comprised of a set of required courses, a research component, and additional courses from areas of interest including: library studies, knowledge management, information and computer technologies, and archival studies, among others. The program provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; promotes the appropriate use of technology in meeting information needs; advocates the ideal of equal access to information; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organization, and society. After completion of the degree, students may choose to pursue a career in a related field or continue on to further academic studies. The program may be completed full-time in two years or on a part-time basis within a maximum of five years.

section 3.12.11.7: Doctor of Philosophy (Ph.D.) Information Studies

The Ph.D. in Information Studies provides an opportunity for exceptional candidates to study interdisciplinary research topics at the doctoral level. The program offers a thorough grounding in both current theory and methods of research to ensure that students develop knowledge and critical awareness of relevant theories, principles, and methods in Information Studies and acquire the expertise to conduct and promote scholarly research in the context of information studies. The program begins with a set of common courses and proceeds to specialization through dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members. Students develop scholarly and innovative expertise in human-information interaction (HII) in one of three research areas: human-computer interaction; information behaviour and services; and information and knowledge management.

The program prepares graduates for a wide range of settings in research, teaching, and senior administrative positions, in Quebec, Canada, and internationally; contributes to the development of knowledge and to teaching/learning in information studies; and builds national and international visibility of information studies from a research perspective.

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 e

3.12.11.3.2 Application Procedures

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

3.12.11.3.2.1 Additional Requirements

The additional requirements for application are currently under review. For the latest information, please see the *Admissions section* of the School's website.

3.12.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set

Associate Members

Richard Virr; B.A.(Tulane), M.A.(Qu.), Ph.D.(McG.) (*Curator of Manuscripts, Rare Books and Special Collections Division, McGill Libraries*)

Affiliate Members

Charles Cole; B.A., M.L.I.S.(McG.), Ph.D.(Sheff.)

Farkhund Iqbal; B.Sc., M.Sc.(Peshawar), M.Ap.Comp.Sc., Ph.D.(C'dia)

Sessional Lecturers

Maxime Beaulieu; B.A., M.B.S.I.(Montr.), Ph.D.(UQAM)

Svetlana Kochkina; B.A., M.A.(SPbU), M.L.I.S.(McG.)

Lidia Kruk; B.A.(C'dia), M.L.I.S.(McG.)

Isabelle Lamoureux; M.L.I.S.(McG.)

Geoffrey Little; B.A., M.L.I.S.(Tor.)

Daniela Oliveira; B.(Librarianship)(São Paulo), M.L.I.S.(McG.)

Anton Stiglic; B.Sc., M.Sc.(Montr.), M.B.A.(Sher.)

3.12.11.5 Master of Information Studies (M.I.St.) Information Studies (Non-Thesis) (48 credits)

The Master of Information Studies; Non-Thesis is a 48-credit program. The program is designed to prepare graduates for the broad field of information studies. It provides the intellectual foundations for careers as information professionals; fosters competencies in managing information and knowledge resources; advocates the ideal of equal access to information; promotes the appropriate use of technology in meeting information needs; encourages research in the field of library and information studies; and cultivates commitment to professional service for individuals, organizations, and society.

Required Courses (15 credits)

GLIS 601	(3)	Foundations of Information Studies
GLIS 602	(3)	Integrating Research and Practice
GLIS 607	(3)	Organization of Information
GLIS 617	(3)	Information System Design
GLIS 619	(3)	Information Behaviour and Resources

Complementary Courses (21-33 credits)

GLIS 608	(3)	Classification and Cataloguing
GLIS 609	(3)	Metadata & Access
GLIS 611	(3)	Research Principles and Analysis
GLIS 612	(3)	History of Books and Printing
GLIS 613	(3)	Library and Archival History
GLIS 614	(3)	Public Libraries
GLIS 615	(3)	Reference & Information Services
GLIS 616	(3)	Information Retrieval
GLIS 620	(3)	Managing Information Organizations
GLIS 626	(3)	Usability Analysis and Assessment
GLIS 627	(3)	User-Centered Design
GLIS 629	(3)	Information Security
GLIS 630	(3)	Data Mining
GLIS 632	(3)	Library Systems
GLIS 633	(3)	Digital Media

GLIS 607	(3)	Organization of Information
GLIS 617	(3)	Information System Design
GLIS 619	(3)	Information Behaviour and Resources

Research Courses

GLIS 603	(6)	Research Project 1
GLIS 604	(3)	Research Project 2
GLIS 647	(6)	Research Project 3

Complementary Courses (6-18 credits)

3 credits from the following Research Methods courses:

EDEM 690	(3)	Research Methods: Theory and Practice
EDPE 605	(3)	Research Methods
GLIS 611	(3)	Research Principles and Analysis
SOCI 504	(3)	Quantitative Methods 1
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 601	(3)	Qualitative Research Methods 2

And 3-15 credits from the following:

GLIS 608	(3)	Classification and Cataloguing
GLIS 609	(3)	Metadata & Access
GLIS 611	(3)	Research Principles and Analysis
GLIS 612	(3)	History of Books and Printing
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
GLIS 626	(3)	Usability Analysis and Assessment
GLIS 627	(3)	User-Centered Design
GLIS 629	(3)	Information Security
GLIS 630	(3)	Data Mining
GLIS 633	(3)	Digital Media

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
		Knowledge

Students may also be required to take additional courses to prepare them for their research.

3.12.11.8 Graduate Certificate (Gr. Cert.) Digital Archives Management (15 credits)

This program is intended to prepare students to work in the area of digital archives. The graduate courses in the program will focus on principles of organization of information, practices in archival studies, and strategies for digital curation and enterprise content management. This in an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

Required Courses (6 credits)

GLIS 607	(3)	Organization of Information
GLIS 649	(3)	Digital Curation

Complementary Courses (9 credits)

chosen from the following:

GLIS 609	(3)	Metadata & Access
GLIS 633	(3)	Digital Media
GLIS 641	(3)	Archival Description and Access
GLIS 642	(3)	Preservation Management
GLIS 645	(3)	Archival Principles and Practice
GLIS 657	(3)	Database Design & Development
GLIS 660	(3)	Enterprise Content Management

3.12.11.9 Graduate Certificate (Gr. Cert.) Information Architecture and Design (15 credits)

The Graduate Certificate in Information Architecture and Design is intended to prepare students to work as information architects and designers. The graduate courses in the program will prepare students to design and assess information systems (text, multimedia), databases, websites, and interfaces. Techniques for data mining and issues related to information security are also covered. This is an entry-level graduate program that may lead to another certificate or to the M.I.St. (Master of Information Studies).

Required Course (6 credits)

GLIS 617	(3)	Information System Design
GLIS 625	(3)	Information Architecture

Complementary Courses (9 credits)

GLIS 616	(3)	Information Retrieval
GLIS 626	(3)	Usability Analysis and Assessment
GLIS 627	(3)	User-Centered Design
GLIS 629	(3)	Information Security
GLIS 630	(3)	Data Mining
GLIS 633	(3)	Digital Media
GLIS 634	(3)	Web System Design and Management
GLIS 657	(3)	Database Design & Development

3.12.11.10 Graduate Certificate (Gr. Cert.) Information and Knowledge Management (15 credits)

This program is intended to prepare students to work as information and knowledge managers in a variety of sectors. The graduate courses in the program will focus on the information behavior of individuals, networks and organizations, and the nature of tacit and explicit knowledge services and strategies for identifying, capturing, organizing, storing, sharing, and using knowledge throughout the IM/KM lifecycle in order to learn and improve. Tools and techniques

for codifying knowledge and facilitating collaboration in networks are also covered. This in an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

Required Courses (6 credits)

GLIS 619	(3)	Information Behaviour and Resources
GLIS 661	(3)	Knowledge Management

Complementary Courses (9 credits)

chosen from the following:

GLIS 607	(3)	Organization of Information
GLIS 620	(3)	Managing Information Organizations
GLIS 662	(3)	Intellectual Capital
GLIS 663	(3)	Knowledge Taxonomies
GLIS 664	(3)	Knowledge Networks
GLIS 665	(3)	Competitive Intelligence

3.12.11.11 Graduate Certificate (Gr. Cert.) Library and Information Studies (15 credits)

Complementary Courses

9-15 credits, three to five GLIS courses chosen in consultation with the student's adviser with the exception of the following courses:

GLIS 647	(6)	Research Project 3
GLIS 689	(3)	Selected Topics
GLIS 695	(6)	Research Paper 1
GLIS 696D1	(6)	Research Paper 2
GLIS 696D2	(6)	Research Paper 2

Note: students who wish to register for:

GLIS 694	(3)	Certificate Project

must first have their research proposal approved by the Committee on Student Standing and Academic Affairs.

0-6 credits of non-GLIS courses with a maximum of 3 credits from outside McGill. All such courses must be at a graduate level and receive prior approval of the student's adviser(s) and the School's Director.

3.12.12 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

Erik Kuhonta – *Director*

Iain Blair – *Administrative Officer*

Email: *iain.blair@mcgill.ca*

Sherryl Ramsahai – *Administrative Coordinator*

Email: *sherryl.ramsahai@mcgill.ca*

Lisa Stanischewski – *Student Advising Administrator*

Email: *lisa.stanischewski@mcgill.ca*

Kirsty McKinnon – *Student Affairs Coordinator*

Email: *kirsty.mckinnon@mcgill.ca*

3.12.12.2 About the Institute for the Study of International Development

ISID is an interdisciplinary institute in the Faculty of Arts with over 40 members from various faculties. It also works with an international community of scholars, development groups, and the public. Interdisciplinary research sponsored by ISID revolves around three themes: poverty and inequality; governance and society; and environment and sustainability. It organizes seminars and conferences on development issues related to these themes.

Graduate students can register in the Development Studies Option (DSO), a cross-disciplinary M.A. program in which six departments participate:

- *section 3.12.1: Anthropology*
- *section 3.12.6: Economics*
- *section 3.12.9: Geography*
- *section 3.12.10: History and Classical Studies*
- *section 3.12.19: Political Science*
- *section 3.12.26: Sociology*

Further information about this option is available from each of these departments, as well as on the *ISID website*.

3.12.12.3 International Development Admission Requirements and Application Procedures

3.12.12.3.1 Admission Requirements

Students will **only** be considered for the **Development Studies Option** (DSO) once they have been accepted into a master's program in one of the six participating departments (Anthropology, Economics, Geography, History, Political Science, and Sociology) at McGill.

3.12.12.3.2 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: Economics*
- *section 3.12.9: Geography*
- *section 3.12.10: History and Classical Studies*
- *section 3.12.19: Political Science*
- *section 3.12.26: Sociology*

Departmental contact info is also available at *www.mcgill.ca/gps/contact/graduate-program*.

3.12.13 Islamic Studies

3.12.13.1 Location

Institute of Islamic Studies
Morrice Hall, Room 319
3485 McTavish Street
Montreal QC H3A 0E1
Canada
Telephone: 514-398-6077
Email: *info.islamics@mcgill.ca*
Website: *www.mcgill.ca/islamicstudies*

3.12.13.2 About Islamic Studies

Opportunities for research are wide and varied, reflecting the interests of both the faculty and students. Students may choose a specialization from the following options:

- Arabic Literatures;
- Arab American/Arab Canadian Literatures;
- Persian Literature;
- Urdu Literature;
- South-Asian Literature;
- Islamic Theology;
- Islamic Philosophy;
-

section 3.12.13.6: Master of Arts (M.A.) Islamic Studies (Thesis): Gender and Women's Studies (45 credits)

This option is an interdisciplinary program for students who wish to specialize in Islamic Studies and earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. Students pursuing the degree at the Institute normally have an undergraduate specialization in the Humanities or Social Sciences, preferably with a major in Islamic Studies or Middle Eastern Studies. Knowledge of Arabic or Persian at the first-year level is an asset. The student's master's thesis must be on a topic centrally relating to issues of gender and/or women's studies. Subsequent career paths include teaching at the secondary and post-secondary levels, working for NGOs, government agencies, or companies doing business in Islamic countries, and further graduate study in this field.

section 3.12.13.7: Doctor of Philosophy (Ph.D.) Islamic Studies

Students pursuing the Ph.D. in Islamic Studies at the Institute normally have a graduate specialization in the Humanities or Social Sciences, preferably in

Application Opening Dates	Application Deadlines
	Current McGill Students (any

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, orv27(Aisias e)

Note that the courses taken to fulfill the second-year level requirements will not be credited towards the course requirements.

3.12.13.7 Doctor of Philosophy (Ph.D.) Islamic Studies

Thesis

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

Required Course (3 credits)

ISLA 603	(3)	Introductory: Research Materials - Islamic Studies
ISLA 701	(0)	Comprehensive Examination

Complementary Courses (27 credits)

27 credits of courses at the 500 level or higher, including 6 credits at the 600 or 700 level of seminars offered by the Institute of Islamic Studies.

* Note: For the three-year-level language requirement, either, ISLA 521D (9 credits) or ISLA 541D (6 credits) will not count toward the 27 complementary07 521.743 T

* Note: For the three-year-level language requirement, either, ISLA 521D (9 credits) or ISLA 541D (6 credits) will not count toward the 21 complementary credits.

With the permission of the Institute, up to 6 credits could be taken in other departments at McGill or other institutions.

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

To avoid over-specialization, a maximum of 9 credits of content courses (i.e., courses that are not primarily devoted to language instruction can be taken with a single Institute professor.

Language Requirements

All Ph.D. students are required to have completed three years of Arabic language or Persian language study at the IIS. Students who do not take the third level of Arabic or Persian at the Institute may demonstrate their competence by taking a proficiency examination set by the academic staff of the IIS.

In addition to Arabic or Persian, all Ph.D. students are required to have completed the equivalent of two years of language study at the IIS of another Islamic language. They may demonstrate competence in this language by taking a proficiency examination set by the academic staff of the IIS. Students are, of course, responsible for whatever higher levels are required for their research.

In addition to English, reading knowledge of one non-Islamic research language (usually European) at a level of scholarly competence will be required for the Ph.D. Students must demonstrate their competence in the non-Islamic (usually European) research language by passing the Language Proficiency Examination administered by the Institute.

3.12.14 Jewish Studies

3.12.14.1 Location

Department of Jewish Studies
855 Sherbrooke West, Leacock Building, 7th floor
Montreal QC H3A 2T7
Canada
Telephone: 514-398-2844
Website: *www.mcgill.ca/jewishstudies*

3.12.14.2 About Jewish Studies

The Department of Jewish Studies offers an interdisciplinary approach to the study of Judaica. It welcomes students interested in deepening their knowledge of Jewish history and Jewish texts. Students have the choice of a thesis or non-thesis M.A. in Jewish Studies and may choose to complete the thesis M.A. with a stream in the History of the Jewish Interpretation of the Bible. An *ad hoc* Ph.D. is also available. We have particular research and teaching strengths in the following areas: Hebrew Bible and its interpretation; rabbinics and codes; medieval and modern Jewish thought; Eastern European Jewish history; Jewish literature (Hebrew, Yiddish, English); and contemporary North American Jewish life. These areas are broadly construed to accommodate the range of research interests in the Department. Students develop close relationships with their supervisors and benefit from the diverse expertise available in our Department and in the University at large.

While the thesis option is designed for students undertaking advanced research in one of the areas above, the non-thesis option offers a generalist degree in Jewish studies.

section 3.12.14.5: 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 e udec/F2 8.rhe program with a stream in the History of the Je

Associate Professors

Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.) (*joint appt. with Integrated Studies in Education*)

Yael Halevi-Wise; B.A.(Hebrew), M.A.(G'town), Ph.D.(Princ.) (*joint appt. with English*)

Lawrence Kaplan; B.A.(Yeshiva), M.A., Ph.D.(Harv.)

Assistant Professor

Urszula Madej-Krupitski; B.A., M.A.(Jagiellonian), M.A., Ph.D.(Calif., Berk.)

Christopher Silver; B.A.(Calif., Berk.), M.A., Ph.D.(Calif.-LA) (*Segal Family Assistant Professor of Jewish History and Culture*)

Lecturers

Lea Fima; B.Ed.(BeitBerl), M.A.(McG.)

Esther Frank; B.A., M.A.(McG.)

Yuri Vedenyapin; B.A.(Harv.), Ph.D.(Col.)

Adjunct Professor

Daniel Kupfert Heller; B.A.(Tor.), Ph.D.(Stan.)

3.12.14.5 Master of Arts (M.A.) Jewish Studies (Thesis) (45 credits)

An M.A. in Jewish Studies (thesis option) is offered in the following areas: History of the Jewish Interpretation of the Bible, Eastern European Jewish History, Jewish Thought, Hebrew Literature, and Modern Jewish Literatures. These areas of specialization are broadly construed to accommodate the range of research interests in the Department. The M.A. can be completed in one year, though most students spend two years in the program.

Note: Students can choose from either the Jewish Studies Stream or History of the Jewish Interpretation of the Bible Stream.

Jewish Studies Stream (45 credits)

Thesis Courses (30 credits)

JWST 695	(9)	M.A. Thesis 1
JWST 696	(9)	M.A. Thesis 2
JWST 697	(12)	M.A. Thesis 3

Required Course (3 credits)

JWST 699	(3)	Research in Jewish Studies

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen according to each student's specialization in consultation with the student's thesis adviser.

Language Requirement

Students choosing Eastern European studies, Jewish thought, or Hebrew literature must demonstrate fluency in either Hebrew or Yiddish according to their field of specialization. Mastery is normally determined by an examination administered by the Department.

History of the Jewish Interpretation of the Bible Stream (45 credits)

Thesis Courses (24 credits)

JWST 690	(3)	M.A. Thesis 1
JWST 691	(6)	M.A. Thesis 2
JWST 692	(12)	M.A. Thesis 3
JWST 694	(3)	M.A. Thesis 4

Required Courses (9 credits)

JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 699	(3)	Research in Jewish Studies

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen in consultation with the student's thesis adviser.

Language Requirement

In addition to Hebrew, students in the History of the Jewish Interpretation of the Bible stream must master another language in which primary documents in this field have been written; in most cases, this will be Aramaic, but classical Arabic and Greek are also accepted. Mastery is normally determined by an examination administered by the Department.

3.12.14.6 Master of Arts (M.A.) Jewish Studies (Non-Thesis) (45 credits)

All students pursuing this option must take JWST 699. The remaining credits will normally include 15 credits in two of the following areas and 12 credits in the third: Jewish Thought, Jewish History, and Jewish Literature. The substitution of credits in related disciplines outside of Jewish Studies may be permitted if appropriate. The coursework will be adjusted to the applicant's academic background.

Required Course (3 credits)

JWST 699	(3)	Research in Jewish Studies

Complementary Courses (42 credits)

Students will normally take 15 credits in two of the following areas and 12 credits in the third.

Jewish Thought (12-15 credits)

JWST 504	(3)	Seminar in Jewish Thought
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 604	(3)	Topics: In Jewish Thought

Jewish History (12-15 credits)

HIST 655	(6)	Tutorial
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
		Bible Interpretation in Antiquitpretation 1

JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature
JWST 615	(3)	Literary Analysis of Hebrew Fiction

3.12.15 Languages, Literatures, and Cultures

3.12.15.1 Location

Department of Languages, Literatures, and Cultures
688 Sherbrooke Street West, Suite 425
Montreal QC H3A 3R1
Canada
Telephone: 514-398-3650
Email: *info.llcu@mcgill.ca*
Website: *www.mcgill.ca/langlitcultures*

3.12.15.2 About Languages, Literatures, and Cultures

The Department's graduate programs in:

- *section 3.12.15.2.2: German Studies*;
- *section 3.12.15.2.3: Hispanic Studies*;
- *section 3.12.15.2.4: Italian Studies*;
- *section 3.12.15.2.5: Russian and Slavic Studies*;

offer a vibrant research environment, combining the rigour of traditional philological inquiry with a range of other theoretical and methodological approaches, many of them informed and/or creatively challenged by broader transnational and interdisciplinary perspectives. The Department is committed to international standards of excellence in graduate student training.

3.12.15.2.1 Digital Humanities (*Ad Hoc*)

The Department of Languages, Literatures, and Cultures offers an *Ad Hoc* M.A. in Digital Humanities; please contact the Department for more information.

3.12.15.2.2 German Studies

Faculty research specializations in German Studies cover philology and literary history from the 18th century to the present, film and German media studies, history of the book, philosophy, intellectual history, and the history of the German Left. Students may specialize in literature, intellectual history, film, media, and/or digital humanities. Students in German Studies often spend time abroad in Germany and Austria and take part in conference and workshop organization. German Studies is connected with notable facilities and resources, including the *Moving Image Research Laboratory*.

Ph.D. Language Tests

Ph.D. candidates in other disciplines who are required to pass a reading test in German may prepare themselves by taking GERM 200 or GERM 202.

section 3.12.15.5: Master of Arts (M.A.) German (Thesis) (48 credits)

Students enrolled in the M.A. with thesis option complete six 3-credit courses and write an M.A. thesis under the direction of one faculty member. Students enrolled in the thesis M.A. in German take fewer courses than non-thesis M.A. students and finish their program by conceiving and executing a substantial research project under the supervision of one professor. M.A. students in this track have gone on to do Ph.D. degrees in German and related fields, and pursue academic careers.

section 3.12.15.6: Master of Arts (M.A.) German (Non-Thesis) (45 credits)

Students enrolled in the M.A. with non-thesis option complete nine 3-credit courses and three research papers. This program is geared toward students who may or may not plan to do a Ph.D. in German and therefore do not necessarily need to undertake a major research project, but would like to acquire a broad basis of courses in German culture and media. Non-thesis M.A. students have gone on to pursue a variety of careers inside and outside the academy.

section 3.12.15.7: Doctor of Philosophy (Ph.D.) German

Students enrolled in the Ph.D. program in German Studies take courses in literature, film, and media history during their first two years, before designing a set of comprehensive qualifying exams tailored toward their particular research and future teaching interests. After passing their exams (including language examination(s)), students may develop a doctoral dissertation topic in consultation with a Departmental faculty member. Students enrolled in this program have gone on to teach German Studies and related fields in universities, CEGEPs, or high schools, as well as pursuing careers outside of the academy.

3.12.15.2.3 Hispanic Studies

Hispanic Studies is committed to the disciplined study of all aspects of the literature, intellectual history, and culture of Spain and Latin America, as well as the Spanish language. Currently, Hispanic Studies has two outstanding research areas:

- Colonial and Peninsular Baroque and Enlightenment, with a v

The Department of Languages, Literatures, and Cultures also offers the possibility of directly entering a Ph.D. program in Italian Studies on an *ad hoc* basis; or, with the permission of the supervisor and the approval of the Graduate Program Director, exceptional students may transfer from the M.A. to the *ad hoc* Ph.D. program.

section 3.12.15.11: Master of Arts (M.A.) Italian (Thesis) (45 credits)

Students enrolled in the M.A. (thesis) option complete seven 3-credit courses and write an M.A. thesis under the direction of a faculty member.

section 3.12.15.12: Master of Arts (M.A.) Italian (Non-Thesis) (45 credits)

Students enrolled in the M.A. (non-thesis) option complete nine 3-credit courses and two in-depth research papers under the direction of a faculty member.

3.12.15.2.5 Russian and Slavic Studies

Master's and Ph.D. in Russian

Russian and Slavic Studies offers graduate instruction at both the M.A. and Ph.D. levels. Our faculty specializes in 19th- and 20th-century Russian literature and culture, working in such areas as:

- The Russian novel, the Russian short story;
- Dostoevsky,Tolstoy, Chekhov, and Nabokov;
-
-
-
- Russian opera, drama, and film studies;
- Russian Romanticism, Russian Modernism, and the Russian Avant-Garde;
-
-
- High Stalinist Culture;
-
- Cultural mythology;
-

3.12.15.3 Languages, Literatures, and Cultures Admission Requirements and Application Procedures

3.12.15.3.1 Admission Requirements

TOEFL is required of all graduate studies applicants whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone). A minimum score of 86, with each component score not less than 20, is required on the TOEFL Internet-based examination (iBT). Proof of TOEFL must be presented at the time of application or shortly thereafter. McGill University's institution code is **0935**.

Students also have the option of taking the *IELTS* (International English Language Testing Service System) examination, for which the minimum score is an overall band average of 6.5 (academic module). McGill University accepts only scores submitted electronically by an IELTS test centre and no longer accepts paper TRFs (Test Report Forms) directly from test centres and candidates. Please contact the test centre where you took the IELTS test and request that your test scores be sent electronically to McGill. You can verify your results directly in uApply.

GERMAN STUDIES

- **Master's**:

  In order to be admitted to the M.A. program in German Studies, candidates must have at least a B.A. degree in German from McGill University or an equiv

See *University Re*

Professors

J.R. Jouvé-Martin; Lic.Fil.(Autonoma, Madrid), Ph.D.(G'town)

J. Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)

P. Peters; B.A.(Man.), Ph.D.(Free Univ., Berlin)

A. Piper; B.A.(Princ.), Ph.D.(Col.)

Associate Professors

L. Beraha; B.A., M.A., Ph.D.(McG.)

A. Berman; B.A.(Brown), M.Phil.(Camb.), M.A., Ph.D.(Princ.)

E. Bolongaro; B.A., LL.B.(Br. Col.), M.A., Ph.D.(McG.)

A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)

T. Holmes; B.A.(Ore.), M.A., Ph.D.(Johns Hop.)

L. Kroha; B.A., M.A.(McG.), Ph.D.(Harv.)

F. Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)

G. Minghelli; M.A., Ph.D.(Johns Hop.)

L. Parts; M.A., Ph.D.(Col.)

S. Posthumus; B.A.(Calvin), M.A.(Qu.), Ph.D.(UWO)

S. Sinclair; B.A.(Br. Col.), M.A.(Vic., BC), Ph.D.(Qu.)

M. Soranzo; Dott.Lett.(Padua), Ph.D.(Wisc.)

Assistant Professors

V. Ceia; B.A.(Tor.), M.A.(McG.), Ph.D.(NYU)

D. Pratt; B.A.(Princ.), M.A., Ph.D.(Chic.)

C. Raynor; M.Sc.(LSE), M.A.(Middlebury), Ph.D.(G'town)

D. Schwartz; B.A.(Chic.), M.A., Ph.D.(Johns Hop.)

Faculty Lecturers

Sandra Barriales-Bouche; M.A., Ph.D.(Mass.)

Lucia Chamanadjian; M.A.(Car.)

Cristiana Furlan; M.A., Ph.D.(McG.)

Anny Guimont; M.A.(Montr.)

Maria Ivanova; M.A.(SPbU), Ph.D.(Moscow St.)

Zora Kadrybekova; M.A., Ph.D.(McG.)

Sun-Young Kim; M.A.(Tor.), Ph.D.(Mich.)

Maria-Teresa Mascaro; M.S.(G'town)

Maria Karleen Morrison; M.A.(Tübingen), 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.

Students admitted to this option normally pursue their studies on a full-time basis. The combination of three courses and one Thesis Preparation course will permit these students the 12 credits per term average that is required for most fellowships.

3.12.15.9 Master of Arts (M.A.) Hispanic Studies (Non-Thesis) (48 credits)

All candidates pursuing the M.A. without thesis must complete HISP 615. Candidates choosing to focus their research on the literature of Spain will take HISP 616. Those wishing to specialize in the literature of Spanish America will take HISP 617.

At the conclusion of each Research Project, students will be required to produce an extended essay, or series of essays, during a 48-hour period with full access to critical material. Each of these essays will focus upon themes and issues central to the particular field of research and will be examined by at least two faculty members. Normally, the examinations for each of these projects will be offered only once during the academic year and always in the same rotation: HISP 615 in December, and both HISP 616 and HISP 617 in April.

Research Project (18 credits)

Note: Students may take either HISP 616 OR HISP 617.

HISP 615	(9)	Medieval and Golden Age Literature: Grp
HISP 616	(9)	Modern and Contemporary Spanish Literature: Grp
HISP 617	(9)	Modern and Contemporary Spanish-American Literature: Grp

Required Courses (6 credits)

HISP 603	(3)	Hispanic Bibliography 1
HISP 604	(3)	Hispanic Bibliography 2

Complementary Courses (24 credits)

Eight 3-credit graduate-level HISP courses.**(8.1e lite1 0 0 1 6hredits)U2nd8a period with full**

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)

ITAL 602	(3)	The Literary Tradition
ITAL 610	(3)	Bibliography of Italian Literature
ITAL 619	(3)	Topics in Literary Theory
ITAL 680	(3)	Research Seminar

Complementary Courses (9 credits)

9 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The three courses should cover three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Indi

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	(3)	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.

Revision, July 2020. End of revision.

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
RUSS 760	(0)	Pre-Petrine Foundation
RUSS 770	(0)	18th Century Foundation

Language Requirement

Proficiency in Russian, functional ability in English and in French, and proficiency in a second Slavic language, if relevant to the research topic and where deemed appropriate by the Department Graduate Committee.

3.12.16 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 RTm(studentnts are fundehg9cltdenn. 0 1 6ien2 la)Tj29F1 10 Tf1 0 0 1 AiTie

	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.(UWI), M.A., Ph.D.(Tor.)

L. de M. Travis; B.A.(Yale), Ph.D.(MIT)

L. White; M.A.(Camb.), Ph.D.(McG.) (*James McGill Emerita Professor*)

Professors

B. Gillon; B.A., M.A.(Mich.), M.A.(Tor.), Ph.D.(MIT)

M. Wagner; M.A.(HU Berlin), Ph.D.(MIT)

Associate Professors

L. Alonso-Ovalle; B.A.(Oviedo), M.A., Ph.D.(UMass Amherst)

C. Boberg; B.A.(Alta.), Ph.D.(Penn.)

M. Clayards; B.Sc.(Vic., BC), M.A., Ph.D.(Roch.)

J. Coon; B.A.(Reed), Ph.D.(MIT) (*Canada Research Chair*)

H.M. Goad; B.A.(Br. Col.), M.A., Ph.D.(USC)

B. Schwarz; M.A.(Tübingen), Ph.D.(UMass Amherst)

J. Shimoyama; B.A., M.A.(Ochanomizu Uni.), Ph.D.(UMass Amherst)

M. Sonderegger; B.S.(MIT), M.S., Ph.D.(Chic.)

Assistant Professors

T. J. O'Donnell; B.A.(Cornell), Ph.D.(Harv.)

M. Martinovi ; Dip.(Zagreb), Ph.D.(Chic.)

S. Reddy; M.S.(York, UK), Ph.D.(Edin.)

F. Torreira; Lic.(ISTI), Cand., Lic.(ULB), 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 645	(3)	Computational Research on Language
LING 661	(3)	Advanced Formal Methods

LING 665 (3) Semantics 4

805 Sherbrooke Street West
Montreal QC H3A 0B9
Canada
Telephone: 514-398-3800
Fax: 514-398-3899
Email: *grad.mathstat@mcgill.ca*
Website: *www.mcgill.ca/mathstat/*

3.12.17.2 About Mathematics and Statistics

The Department of Mathematics and Statistics offers programs that can be focused on applied mathematics, pure mathematics, and statistics leading to master's degrees (**M.A.** or **M.Sc.**), with program options in Bioinformatics. The research groups are:

- Algebra;
- Algebraic Geometry;
- Analysis;
- Applied Mathematics;
- Differential Equations;
- Differential Geometry;
- Discrete Mathematics;
- Geometric Group Theory;
- Logic;
- Mathematical Biology;
- Mathematical Physics;
- Number Theory;
- Probability;
- Statistics.

In the basic master's programs, students must choose between the thesis option, and the non-thesis option which requires a project. The Bioinformatics option requires a thesis. In addition to the Ph.D. program in Mathematics and Statistics, there is a Ph.D. option in Bioinformatics.

The *Department's website* provides extensive information on the Department and its facilities, including the research activities and research interests of individual faculty members. It also provides detailed supplementary information concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.

Students are urged to consult the *Institut des Sciences Mathématiques (ISM) website*, which coordinates intermediate and advanced-level graduate courses among Montreal and Quebec universities. A list of courses available under the ISM auspices can be obtained from the ISM website. The ISM also offers fellowships and promotes a variety of joint academic activities greatly enhancing the mathematical environment in Montreal and in the province of Quebec.

Master of Arts (M.A.) Programs in Mathematics and Statistics

Detailed program requirements for the following M.A. programs are found in ***Arts*** > *Graduate* > *Browse Academic Units & Programs* > *Mathematics and Statistics*.

section 3.12.17.5: Master of Arts (M.A.) Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.A.). The thesis option requires a thesis and six approved courses.

section 3.12.17.6: 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 master's degree (M.A.). The non-thesis option requires a project and eight approved courses.

Master of Science (M.Sc.) Programs in Mathematics and Statistics

Detailed program requirements for the following M.Sc. programs are found in ***Science*** > *Graduate* > *Browse Academic Units & Programs* > *Mathematics and Statistics*.

section 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 (Non-Thesis) (45 credits)

The Department of Mathematics and Statistics offers programs with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.Sc.).The non-thesis option requires a project and eight approved courses.

Ph.D. Programs in Mathematics and Statistics

section 3.12.17.7: Doctor of Philosophy (Ph.D.) Mathematics and Statistics

The Department offers a course of studies leading to the Ph.D. degree. It differs substantially from the master’s programs in that the student must write a thesis that makes an original contribution to knowledge. The thesis topic is chosen by the student in consultation with the research supervisor. The thesis must be examined and approved by an internal examiner (normally the research supervisor), an external examiner, and the Oral Examination Committee. The student must present an oral defence of the thesis before that Committee. To submit a thesis for examination, the student must first pass comprehensive examinations.

section 3.12.17.8: Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics. Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field and will have the capability of developing an independent bioinformatics research program.

3.12.17.3 Mathematics and Statistics Admission Requirements and Application Procedures

3.12.17.3.1 Admission Requirements

In addition to the general Graduate and Postdoctoral Studies requirements, the Department requirements are as follows:

Master's Degree

The normal entrance requirement for the master's programs is a Canadian honours degree or its equivalent, with high standing, in mathematics or a closely related discipline in the case of applicants intending to concentrate in statistics or applied mathematics.

Applicants wishing to concentrate in pure mathematics should have a strong background in linear algebra, abstract algebra, and real and complex analysis.

Applicants wishing to concentrate in statistics should have a strong background in linear algebra and basic real analysis. A calculus-based course in probability and one in statistics are required, as well as some knowledge of computer programming. Some knowledge of numerical analysis and optimization is desirable.

Applicants wishing to concentrate in applied mathematicst algebra, and real andof numerical nts and Aeir anrrin aDptimiza30 1 4 t495.207 l569.4Tm(v)Tjfr4.74 T61u7

Professors

Peter Bartello; B.Sc.(Tor.), M.Sc., Ph.D.(McG.) (*joint app*[redacted]*tmospheric* [redacted]*d Oceanic Sciences*)

Rustum Choksi; B.Sc.(Tor.), M.Sc., Ph.D.(Brown)

Henri Darmon; B.Sc.(McG.), Ph.D.(Harv.), F.R.S.C. [redacted]*shed Jam*[redacted]*cGill Professor*)

Christian Genest; B.Sp.Sc.(UQAC), M.Sc.(Montr.) [redacted] Col.) ([redacted]*da Research Chair*)

Eyal Z. Goren; B.A., M.S., Ph.D.(Hebrew)

Pengfei Guan; B.Sc.(Zhejiang), M.Sc., Ph.D.(P[redacted]*ames McGill Professor*)

Jacques C. Hurtubise; B.Sc.(Montr.), D.Phil.([redacted]

Dmitry Jak.), Ph.D.(Princ.) (*BroPeRedpa. v*[redacted]

Associate Members

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*)

Xue Liu (*Computer Science*)

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.(ITAM), Ph.D.(T

Faculty Lecturers

Sidney Trudeau; Ph.D.(McG.)

3.12.17.5 Master of Arts (M.A.) Mathematics and Statistics (Thesis) (45 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Complementary Courses (21 credits)

At least 6 approved graduate courses, at the 500, 600 or 700 level, of 3 credits or more each.

3.12.17.6 Master of Arts (M.A.) Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)

MATH 640	(8)	Project 1
MATH 641	(8)	Project 2

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

3.12.17.7 Doctor of Philosophy (Ph.D.) Mathematics and Statistics

Thesis

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

Required Courses

MATH 700	(0)	Ph.D. Comprehensive Examination Part A
MATH 701	(0)	Ph.D. Comprehensive Examination Part B

Complementary Courses (21 credits)

Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

3.12.17.8 Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Thesis

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

Required Courses (3 credits)

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

3.12.18 Philosophy

3.12.18.1 Location

Department of Philosophy
Leacock Bu8(art B)Tjhng, 9th floor0 1 81.693 482.262 T71.04acock 841 Sherbrook0 1 121.807 539.532 T71.04acock e al eet 0 1 151.873 693.132 T71.04acock W

The Department as a whole, taking into account the Thesis Advancement Committee's recommendation and the student's overall academic record in the program, decides whether to permit the student to continue. Students who do not receive a positive recommendation but who satisfy Graduate and Postdoctoral Studies requirements (no courses below a B- and completion of 45 credits) will be recommended to Graduate and Postdoctoral Studies by the Department to transfer from the Ph.D. program to the M.A. program.

Graduate students are expected to continue to contribute to the intellectual life of the Department after being promoted to candidacy. The

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 Admissions and Application Procedures* > *section 1.4.3: Application Procedures* for detailed application procedures.

3.12.18.3.2.1 Additional Requirements

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

- Letters of Reference – three (3) original letters of reference, from three qualified individuals familiar with your work
- Writing Sample (15–20 pages) – a sample of your written work in philosophy
- Personal Statement (2–3 pages) – explaining your reasons for wishing to undertake graduate studies in philosophy at McGill University

Pr

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, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (18 credits)

PHIL 607	(6)	Pro-Seminar 1
PHIL 682	(6)	Pro-Seminar 3
PHIL 685	(3)	Fundamentals of Logic
PHIL 690	(3)	Candidacy Paper

Complementary Courses

(21-27 credits)

** When topic is appropriate.

At least 6 credits from:

PHIL 607***	(6)	Pro-Seminar 1
PHIL 634	(3)	Seminar: Ethics
PHIL 643	(3)	Seminar: Medical Ethics
PHIL 644	(3)	Political Theory
PHIL 648	(3)	Seminar: Philosophy of Law
PHIL 682***	(6)	Pro-Seminar 3

and/or any other course at the 500 level or higher in Value Theory recommended/accepted by the student's advisory committee.

*** When the topic is appropriate.

At least 6 credits from:

PHIL 606	(3)	Seminar: Philosophy of Mind
PHIL 607***	(6)	Pro-Seminar 1
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
PHIL 682***	(6)	Pro-Seminar 3

and/or any other course at the 500 level or higher in Metaphysics and Epistemology recommended/accepted by the student's advisory committee.

*** When topic is appropriate.

The remaining 3-9 credits must be at the 500 level or higher 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.

ENVR courses (6 credits):

3-6 credits from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Doctor of Philosophy (Ph.D.) Philosoph

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.

Minimum of 6 credits from the following:

PHIL 643	(3)	Seminar: Medical Ethics
PHIL 644	(3)	Political Theory
PHIL 648	(3)	Seminar: Philosophy of Law

and/or any other course at the 500, 600, or 700 level in Value Theory recommended/accepted by the student's advisory committee.

Minimum of 6 credits 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

Language Requirement

Students must satisfy Departmental language requirements by demonstrating competence at the advanced level in a research language, or at the intermediate level in two research languages.

3.12.19 Political Science

Location

- Nations and Nationalism;
- Health and Social Policy;
- Identity Politics.

For a full list of our affiliated research centres and institutes, please consult our website: *www.mcgill.ca/politicalscience/about-us/centres*.

Changes may take place after this content is published. Students are advised to contact the Department Office for supplementary information, which may be important to their choice of program.

Master's Programs

Students may select a program with the Thesis or the Non-Thesis (Research Project) option in completing M.A. degree requirements. They may switch from one option to the other while completing their coursework.

section 3.12.19.5: Master of Arts (M.A.) P

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 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 faculty members in the Department.

Ph.D. Programs

section 3.12.19.13: Doctor of Philosophy (Ph.D.) Political Science

3.12.19.3.2 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.

3.12.19.3.2.1 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	
	Canadian citizens/Perm. residents of Canada (incl. Special, Visiting &	**Current McGill Students (any citizenship)**

Professors

Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)

Philip D. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.)

T.V. Paul; B.A.(Kerala), M.Phil.(JNU), M.A., Ph.D.(Calif.-LA) (*James McGill Professor*)

Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*James McGill Professor*)

Filippo Sabetti; B.A.(McM.), M.A., Ph.D.(Ind.)

Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.) (*James McGill Professor*)

Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)

Jennifer Welsh; B.A.(Regina), B.A.(Sask.), M.Phil., D.Phil.(Oxf.) (*Canada Research Chair*)

Associate Professors

Leonardo Baccini; M.A.(Bologna), Ph.D.(Trin. Coll., Dublin)

Manuel Balán; Proc., J.D.(Palermo, Argentina), Ph.D.(Texas-Austin)

Megan Bradley; M.A.(St. And.), M.Sc., D.Phil.(Oxf.)

Victor Muñiz-Fraticelli; B.A.(Cornell), J.D.(Puerto Rico), M.A., Ph.D.(Chic.)

Erik Kuhonta; B.A.(Penn.), M.A., Ph.D.(Princ.)

Hudson Meadwell; B.A.(Manit.), M.A., Ph.D.(Duke)

Khalid Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.)

Fernando Nuñez-Mietz; B.A.(UdeSA, Argentina), M.A., Ph.D.(Ohio St.)

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town) (*William Dawson Scholar*)

Maria Popova; B.A.(Dart.), Ph.D.(Harv.)

William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)

Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.)

Debra Thompson; B.A., M.A.(Carleton), Ph.D.(Toronto)

Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)

Yves Winter; B.Sc.(LSE), M.A.(Paris X), Ph.D.(Calif., Berk.)

Assistant Professors

Yann Allard-Tremblay; B.A., M.A., (Montr), Ph.D.(SASP)

Elissa Berwick; B.Sc.(Yale), M.Phil.(Oxf.), Ph.D.(MIT)

Aaron Erlich; M.A.(G'town), M.A., Ph.D.(Wash.)

Kelly Gordon; B.A.(Calg.), M.A., Ph.D.(Ott.)

Hamish van der Ven; M.A.(Br. Col.), Ph.D.(Tor.)

Tania Islas Weinstein; B.A.(CIDE), M.A., Ph.D.(Chic.)

Associate Members

Benjamin Forest; M.A., Ph.D.(Calif.-LA)

Daniel Weinstock; M.A.(McG.), D.Phil.(Oxf.)

Faculty Lecturers

Daniel Douek; B.A.(Vassar), M.A., Ph.D.(McG.)

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. Students take courses in two or more sub-fields of political science. The focus of the program is to provide training in the discipline of political science and prepare students for further graduate work. Students need to demonstrate an ability to design and esis) (wO preng andm(Erik nce. SS3iectur)Tj1 0 401 0 0 16nhce. SS3iectur

Thesis Courses (24 credits)

A thesis is required to demonstrate proficiency in research. It is normally about 100 pages long and is subject to evaluation by one examiner internal to the Department and one examiner external to the Department.

POLI 697	(12)	M.A. Thesis Proposal
POLI 698	(12)	Master's Thesis Submission

Required Course (3 credits)

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)	Proseminar in Political Theory
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.

Of the 18 credits of complementary courses, up to 3 credits at the 500 level or higher may be outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

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. It provides students with broad training in development studies. Students take an

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)	Proseminar in Political Theory
POLI 616	(3)	Modern Political Analysis
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)	Proseminar in Political Theory
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 adv

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)	Proseminar in Political Theory
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)	Proseminar in Political Theory
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)	Proseminar in Political Theory
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)	Proseminar in Political Theory
POLI 616	(3)	Modern Political Analysis
POLI 617	(3)	Problems in Political Theory

12-15 credits of 500- or 600-level POLI courses; up to 6 credits in related disciplines may be allowed if they are appropriate to the program. Candidates for the M.A. degree follow a program approved on an individual basis by the Department.

3.12.19.13 Doctor of Philosophy (Ph.D.) Political Science

Thesis

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: 514-398-6127/514-398-6100
Fax: 514-398-4896
Email: *chantale.bousquet@mcgill.ca*
Website: *www.mcgill.ca/psyc*

M.A. and **M.Sc.** degrees may be awarded in Experimental Psychology, but only as a step to the **Ph.D.**—students undergo formal evaluation beginning with the submission of their master's requirements (thesis or fast-track paper) to enter Ph.D. 2.

The Clinical program adheres to the scientist practitioner model and as such is designed to train students for careers in university teaching or clinical research, and for service careers (working with children or adults in hospital, clinical, or educational settings). Most of our clinical graduates combine service and research roles. While there are necessarily many more course requirements than in the Experimental program, the emphasis is again on research training. There is no master's program in Clinical Psychology; the Department offers direct entry to a doctoral degree for holders of an undergraduate degree, and students are expected to complete the full program leading to a doctoral degree.

Research interests of members of the Psychology Department include:

- behavioural neuroscience;
- clinical psychology;
- cognition & cognitive neuroscience;
- developmental science;
- health psychology;
- quantitative psychology & modelling;
- social & personality psychology.

Facilities for advanced research in a variety of fields are available within the Department itself. In addition, arrangements exist with the Departments of Psychology at the Montreal Neurological Institute and Hospital, Allan Memorial Institute, Douglas Mental Health University Institute, Jewish General Hospital, Montreal Children's Hospital, and Montreal General Hospital to permit graduate students to undertake research in a hospital setting.

Note: Many MUHC-affiliated hospitals and institutes are now located at the Glen site; further information is available on the *MUHC website*.

For inquiries about all programs and financial aid, and for application forms, contact the *Graduate Program Administrator*

Ph.D. Option in Behavioural Neuroscience

Information about this option is available from the Department and at *www.mcgill.ca/psychology/graduate/program-tracks*.

Ph.D. Option in Language Acquisition (LAP)

Information about this option is available from the Department and at *www.psych.mcgill.ca/lap.html* and *www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities*.

Ph.D. Option in Psychosocial Oncology (PSO)

A cross-disciplinary option in Psychosocial Oncology is offered within the existing Ph.D. program in Psychology. Information about this option is available from the Department and at *www.medicine.mcgill.ca/oncology/programs/programs_psychosocialoncology.asp* and *www.mcgill.ca/psychology/graduate/program-tracks/clinical/additional-program-opportunities*.

Arts* > *Graduate* > *Browse Academic Units & Programs* > *Psychology* > *section 3.12.20.5: Master of Arts (M.A.) Psychology (Thesis) (45 credits)

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

Science* > *Graduate* > *Browse Academic Units & Programs* > *Psychology* > *section 15.12.9.5: Master of Science (M.Sc.) Psychology (Thesis) (45 credits)

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

section 3.12.20.6: Doctor of Philosophy (Ph.D.) Psychology

Please contact the Department for more information about this program.

section 15.12.9.7: Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

The Ph.D. in Psychology: Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise, the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes.

section 15.12.9.8: Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

section 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 ' kno

	Application Opening Dates		Application Deadlines	
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.(TWCU.), 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.(UWO)

N. Priscoll

Professors

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*)

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

J. Axt; B.A.(Duke), M.A., Ph.D.(Virg.)

R. Bagot; B.Sc.(UNSW), Ph.D.(McG.)

J. Britt; B.A.(Colo.), Ph.D(Balt.)

C. Falk; B.Sc.(Wisc. Madison), 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.)

B. Johns; BCP(Qu.), Ph.D.(Ind.)

M. Miocevic; B.A., M.A., Ph.D.(Ariz. St.)

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*)

Professionals

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

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. Spreng, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, F. Elgar, M. Leyton

Adjunct Professors

S. Harnad, 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 pre

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
		Instructed Second Language Acquisition Research4t065.864 654.54 Tm((3))Tj1 0 9aprch(Ac71 70.52 638.82 Tm(ED07

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

Location

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 perspectives. It will also place more emphasis than is usual in such programs on practical skills including conflict resolution, persuasive writing, effective presentations, and the briefing of officials.

section 3.12.21.4: Master of Public Policy (M.P.P.) Public Policy (Non-Thesis) (45 credits)

More than ever, the world needs public policy that is creative, bold, and effective. That is why we're excited about the second year of the Max Bell School of Public Policy and its flagship master's program, whose mission is to explore the complexities of the policymaking process from various perspectives and to prepare the policy leaders of the future, in Canada and around the world.

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 — ideally with two to five years of professional experience — who are interested in developing expertise in the field of public policy. Recent graduates with an exceptional academic record will also be considered; however, in the absence of professional experience, more weight will be placed on the applicants' academic record.

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 Statistics.

An overall Cumulative Grade Point Average (CGPA) of 3.6 out of 4.0 or higher is recommended. A minimum CGPA of 3.0 out of a possible 4.0, OR a Grade Point Aarly career profelic

3.12.21.3 Public Policy Faculty

Director
Christopher T.S. Ragan

Faculty
Daniel Béland; B.A., M.A.(UQAM), Ph.D.(EHESS Paris)
Nathalie Duchesnay; B.Com.(ULACIT, Costa Rica), M.B.A.(McG.)
Mayssun El-Attar; B.A.(Barcelona), MRES, Ph.D.(EUI)
Pearl Eliadis; B.C.L/LL.B., B.Sc.(McG.), B.C.L.(Oxf.)
Sebastien Jodoin; B.C.L./LL.B.(McG.), LL.M.(LSE), M.Phil.(Camb.), Ph.D.(Yale)

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

bec

3.12.22 Quebec Studies / Études sur le Québec

3.12.22.1 Location

Quebec Studies Program / Programme d'études sur le Québec
[illegible]
Montreal QC H3A 1A4
Canada
Telephone: 514-398-3960
Website: *www.mcgill.ca/qcst*

Director – Professor Daniel Béland

Québec Studies Scientific Coordinator – Stéphan Gervais

3.12.22.2 About Quebec Studies / Études sur le Québec

In 1963, McGill University established a French Canada Studies program. Some of the energies and resources of the program are devoted to research on Quebec and French Canada. In 1992, the name of the program was changed to Quebec Studies to reflect its central focus. Since 2014, Quebec Studies can benefit from the network of researchers part of the McGill-based Centre for Interdisciplinary Research on Montreal (CIRM) located in the same building as Quebec Studies.

The program is offered at the undergraduate level. Should their main field of study be Quebec, graduate students must apply to the relevant departments.

Graduate students taking courses dealing in whole or in part with Quebec, or who are studying Quebec as their special field of study, are welcome to makeTf(tudes sur l

3.12.23 Religious Studies

3.12.23.1 Location

School of Religious Studies
William and Henry Birks Building
3520 University Street
Montreal QC H3A 2A7
Canada
Telephone: 514-398-4121
Website: *www.mcgill.ca/religiousstudies*

3.12.23.2 About Religious Studies

The School of Religious Studies offers programs leading to the degrees of:

- Master of Arts (M.A.) (Thesis and Non-Thesis)
- Master of Arts (M.A.) (Thesis) with specialization in Bioethics
- Master of Arts (M.A.) (Thesis) with option in Gender and Women's Studies
- Master of Sacred Theology (S.T.M.)
- Doctor of Philosophy (Ph.D.)
- Doctor of Philosophy (Ph.D.) with option in Gender and Women's Studies

The areas of graduate specializations of our School are:

- Buddhism;
- Christian History and Theology;
- Early Judaism;
- Hebrew Bible/Old Testament Studies;
- Hinduism;
- Interfaith Studies;
- New Testament Studies;
- Philosophy of Religion;
- Religion and Communication;
- Religious Ethics;
- Religion and Globalization;
- Religion and Modernity;
- Religion and the Public Sphere;
- Sociology of Islam.

The many different areas of research interest among members of the School frequently require the hiring of graduate students as research assistants. The School also seeks to train young scholars in the art of lecturing/teaching; to this end it has created opportunities for Ph.D. students to teach courses and permits M.A. and Ph.D. students to work as teaching assistants. The individual programs are described below.

Adequate library and study facilities are available in the *William and Henry Birks Building* and elsewhere in the University for the courses listed and for research.

Language Requirements

The School of Religious Studies offers courses in primary text source languages, such as Biblical Hebrew, Aramaic, Biblical Greek, Sanskrit, and classical literary Tibetan. The School relies upon other McGill units for instruction in languages other than those mentioned above.

- **M.A.**

  Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

  

  Note: The M.A. with specialization in Bioethics has no language requirement.

- **Ph.D.**

Students are required to give their area committee evidence of reading knowledge of two languages other than English. These languages must be chosen from modern languages in which there is a significant amount of scholarship relevant to the student's area of research or classical languages relevant to the student's area of research.

Research in some disciplines, or on certain thesis topics, may require proficiency in more than two languages besides English. In that case, additional language requirements may be stipulated by the supervisor.

- **S.T.M.**

  The S.T.M. program has no language requirement.

section 3.12.23.5: Master of Arts (M.A.) Religious Studies (Thesis) (45 credits)

The purpose of the M.A. (Thesis) degree is to encourage advanced study and research in one of the disciplines of Religious Studies for those who wish to become scholars or teachers, or will be engaged in some field of religious or public service. The M.A. (Thesis) program in Religious Studies offers a specialization in Bioethics and an option in Gender and Women's Studies.

section 3.12.23.6: Master of Arts (M.A.) Religious Studies (Thesis): Bioethics (45 credits)

The M.A. (Thesis) with specialization in Bioethics is offered in conjunction with the Bioethics Unit. Please contact the School of Religious Studies or Bioethics Unit for more information about this specialization. The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics

Applicants must possess a B.A. with a Major or Honours in Religious Studies, a Bachelor of Theology (B.Th.), or a Master of Divinity (M.Div.) degree, normally with a minimum CGPA of 3.3/4.0 (B+) from an accredited university or college. Applicants with fewer than 30 appropriate credits in Religious Studies or Theology are normally required to complete a Qualifying program before entering the M.A.

Master of Arts (M.A.) (Thesis) in Religious Studies with specialization in Bioethics

For information contact the Chair, Master's Specialization in Bioethics, Biomedical Ethics Unit, at:

3690 Peel Street
Montreal QC H3A 1W9
Telephone: 514-398-6980
Fax: 514-398-8349
Email: *jennifer.fishman@mcgill.ca*
Website: *www.mcgill.ca/biomedicalethicsunit*

Master of Arts (M.A.) (Non-Thesis)

Applicants must possess a B.A. with a Major or Honours in Religious Studies or a Bachelor of Theology (B.Th.), or a Master of Divinity (M.Div.) degree, normally with a minimum CGPA of 3.3/4.0 (B+) from an accredited university or college. Applicants with fewer than 30 appropriate credits in Religious Studies or Theology are normally required to complete a Qualifying program before entering the M.A.

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

Applicants must possess a B.A., normally with at least a good second-class standing (B+ or CGPA 3.3/4.0), in a major or honours program in Religious Studies or Theology from an accredited university or college. Those who have a McGill B.Th. or an equivalent degree in addition to a B.A. degree with a second-class standing may be admitted to the second year of the S.T.M. program.

Doctor of Philosophy (Ph.D.)

Entry into the doctoral program is limited to applicants who have earned an academic master's degree in Religious Studies or Theology in a recognized graduate program, or those who have finished the course requirements of such a program with a minimum CGPA of 3.5/4.0.

Advanced Standing (Ph.D. 2) may be granted if the completed master's-level work including a thesis is in the same area as that of the intended doctoral specialization and involved not less than six (6) courses (18 credits).

It is recommended that a foreign language related to the area of study be included in the bachelor's or master's work preceding doctoral study.

Applicants for doctoral programs are requested to submit a substantial sample of their scholarly writing (15–20 pages) with their application. The application should specify one of the specializations listed in *section 3.12.23.2: About Religious Studies*.

Doctor of Philosophy (Ph.D.) in Religious Studies – Gender and Women's Studies Option

Entry into the doctoral program is limited to applicants who have earned an academic master's degree in Religious Studies or Theology in a recognized graduate program, or those who have finished the course requirements of such a program with a minimum CGPA of 3.5/4.0.

Advanced Standing (Ph.D. 2) may be granted if the completed master's-level work including a thesis is in the same area as that of the intended doctoral specialization and involved not less than six (6) courses (18 credits).

It is recommended that a foreign language related to the area of study be included in the bachelor's or master's work preceding doctoral study.

Applicants for doctoral programs are requested to submit a substantial sample of their scholarly writing (15–20 pages) with their application. The application should specify one of the specializations listed in *section 3.12.23.2: About Religious Studies*.

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	
	Canadian citizens/Perm. residents of Canada (incl. Special, Visiting & Exchange)	**Current McGill Students (any citizenship)**

Assistant Professors

Rongdao Lai; M.A.(Qu.), Ph.D.(McG.) (*Modern Chinese Buddhism*)

Samuel Nelson; M.A., Ph.D.(Yale) (*Sociology*)

Hamsa Stainton; B.A.(Cornell), M.A.(Wisc. Madison), M.T.S.(Harv.), M.Phil., Ph.D.(Col.) (*South Asian Religions*)

Heidi Wendt; B.A.(Brown), M.T.S.(Harv.), M.A., Ph.D.(Brown) (*New Testament and Early Christianity*)

Numata Visiting Professor

Martina Dreszczyk; A.A.(Hamburg), Ph.D.(Vienna)

Adjunct Faculty

Karen L. Egan; M.Sc.(S. Fraser), B.Th., S.T.M.(McG.), M.Div.(MDTC), D.Min.(LSTC)

Alyson Huntly; Dip.Min.(CCS, Winnipeg), M.T.S.(St. And., Sask.), Ph.D.(Qu.)

Philip Joudrey; M.Div.(Acad.), D.Min.(ANTS)

Thupten Jinpa Langri; B.A., Dr.Div.(King’s, Lond.), Ph.D.(Camb.)

Lucille Marr; B.A., M.A., Ph.D.(Wat.)

Maylanne Maybee; B.A.(Tor.), Cert.Ed., Dip.Theol.(Oxf.), M.Div.(Trin. Coll., Tor.)

Angelika Piché; M.Th.(Munich) , Dip.Min (MST)

Vanessa Sasson; B.A., M.A., Ph.D.(McG.)

Davesh Soneji; B.A.(Manit.), Ph.D.(McG.)

Dale Woods; B.A.(Alta.), M.C.S.(Regent), M.Div.(VST), D.Min.(Luther Sem.)

Jesse Zink; B.A.(Acad.), M.A.(Chic.), M.Div.(Yale), Ph.D.(Camb.)

Associate Member

George Di Giovanni; Ph.D.(Tor.)

Robert Wisnovsky; B.A.(Yale), M.Phil.(Oxf.), M.A., Ph.D.(Princ.)

Affiliate Members

Hillel Braude; M.B., Ch.B.(Cape Town), Ph.D.(Chic.)

Robert Di Pede; B.A.(Tor.), M.A.(Seton Hall), C.Phil.(Immaculate Conception Sem., Seton Hall), Ph.D.(Edin.)

Roland De Vries; B.A.(Guelph), M.Div.(Pres. Coll.), S.T.M., Ph.D.(McG.)

Roberto Formisano; B.A.(Bologna), Ph.D.(Bologna/Nice)

Anne S. Leahy; M.A.(Tor)

Susan J. Palmer; B.A.(McG.), M.A., Ph.D.(C'dia)

Trungram G. Rinpoche Sherpa; B.A.(Sikkim, India), M.A.(UP, India), Ph.D.(Harv.)

John Simons; B.A.(Bishop's), S.T.B.(Trin. Coll., Tor.), Ph.D.(G'town)

Fred Tappenden; B.A.(Taylor), M.A.(Trin. W.), Ph.D.(Manc.)

Fabio Vicini; B.A.(Unimore), M.A.(Milano-Bicocca), Ph.D.(Scuola Normale, Florence)

Jonathan C. Waind; B.A.(Briercrest), M.T.S.(Trin. W.), Ph.D.(McG.)

3.12.23.5 Master of Arts (M.A.) Religious Studies (Thesis) (45 credits)

Thesis Courses (27 credits)

RELG 688	(3)	Thesis Research 1
RELG 689	(3)	Thesis Research 2
RELG 698	(9)	Thesis Research 3
RELG 699	(12)	Thesis Research 4

Required Course (3 credits)

RELG 645	(3)	Methods in Religious Studies

Complementary Courses (15 credits)

15 credits selected from the 500- or 600-level courses accepted by the School of Religious Studies for the granting of a master's degree.

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 level or higher. Course selection approval is required by the Chair of the Religious Studies Graduate Committee.

Students who take the S.T.M.; Non-Thesis as part of their ordination requirements are to choose their courses in consultation with the Principal of the Theological College with which they are associated.

Related courses, at the 500 level or higher, are also available in other departments and must be chosen in consultation with the S.T.M; Non-Thesis adviser.

3.12.23.10 Doctor of Philosophy (Ph.D.) Religious Studies

Thesis

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

Required Courses

RELG 701	(0)	Major Comprehensive Examination
RELG 702	(0)	Minor Comprehensive Examination
RELG 703	(0)	Oral Comprehensive Examination

Candidates admitted to Ph.D. 1 take a minimum of six graduate seminars during their first year and four seminars during their Ph.D. 2 year; those admitted to Ph.D. 2 must take a minimum of four graduate seminars. If possible, two seminars should be in their area of specialization, and at least one should be at the 700 level.

Language Requirements

Students are required to give their area committee evidence of reading knowledge of two languages other than English. These languages must be chosen from modern languages in which there is a significant amount of scholarship relevant to the student's area of research, or from classical languages relevant to the student's area of research.

Research in some disciplines, or on certain thesis topics, may require proficiency in more than two languages besides English. In that case, additional language requirements may be stipulated by the supervisor.

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
- Medical Sociology thesis & non-thesis programs, given jointly with the Department of Sociology.

In each program, the student may work toward the M.A. and Ph.D. degrees. All degrees are awarded by the relevant Faculty of Arts department. For further information regarding those departments, please consult the *section 3.12.1: 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) (45 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 3.12.10.8: Master of Arts (M.A.) History of Medicine (Non-Thesis) (45 credits)

The program is composed of required courses, graduate seminars, plus a major research paper. The program is normally completed in three terms, or one calendar year.

section 3.12.26.8

Qualifying Y

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: Bachelor of Law (B.C.L.)/Juris Doctor (J.D.) & Master of Social Work (M.S.W.) (Joint B.C.L./J.D & M.S.W.) Law & Social Work (Non-Thesis) (132 credits)

The School of Social Work and the Faculty of Law offer a Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law/Juris Doctor (B.C.L./J.D.) designed to transcend academic boundaries in social justice issues. Lawyers and social workers often operate in the same fields, whether in public policy, child protection, family law, poverty law, or domestic violence situations, yet each profession has been constrained by internal limitations. The joint M.S.W. (Non-Thesis)/Law program requires students to complete 132 credits (45 credits in M.S.W., 87 credits in Law). Students should take three and a half to four years to complete the M.S.W./B.C.L./J.D. program. It is possible, however, to complete the program in three years, by doing work for credit over the summer and by carrying heavier course loads throughout the program. The joint program leads to conferral of the B.C.L./J.D. law degrees and the master's degree in social work. Prospective students possess a B.S.W. degree with prior practice experience or have completed the Qualifying year of study for entry into the M.S.W. (Non-Thesis) program.

section 3.12.25.13: Doctor of Philosophy (Ph.D.) Social Work: McGill/UdeM/UQAM **(offered jointly by McGill, *Université de Montréal*, and *Université du Québec à Montréal*)**

As one of the top Ph.D. programs in Canada, the School of Social Work promotes leading scholarship on social policy and practice. Students work closely with their supervisor, pursuing individualized programs of study, which include coursework, research, and professional development. Faculty have expertise in a variety of areas such as aging; social exclusion; child welfare; international social welfare; Indigenous people and communities; violence against women and children; health and disability; po

Psychology, Sociology, Nursing, or other related disciplines. Applicants who have successfully completed a bachelor's or master's degree in a related human science, social science, or helping profession, with a minimum overall CGPA of 3.0 out of 4.0, are eligible to apply.

Joint program: Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) / Juris Doctor (J.D.)

Applicants must apply separately for admission to each Faculty. Applicants must meet or surpass the requirements for admission to both the M.S.W. program and to Law and must submit a brief statement explaining their interest in this joint program along with all other required admission materials.

Ph.D. Program

Applicants apply directly to the School of Social Work. Applicants applying to the Ph.D. program must hold a master's degree in social work or, exceptionally, a bachelor's degree in social work with a master's degree in a related subject from an accredited program. However, applicants who hold a master's degree in a related social science discipline with strong research interests and experience in social work/social policy may also be considered. All applicants must also have completed, at the university level, coursework in statistics and in research methods within the last five years.

Criteria considered in weighing applications include:

- quality and relevance of the student's research proposal and one-page narrative;
- quality of reference letters;
- previous experience as demonstrated in the C.V.

3.12.25.3.2 Application Procedures

McGill’s online application form for graduate program candidates is available at *www*

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.

The Qualifying Year is currently closed for admissions

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

M.Sc.A.				
	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:	Dec. 15	Dec. 15	Dec. 15 (*Application*) Jan. 15 (*University transcripts and References*)	Dec. 15 (*Application*) Jan. 15(*University transcripts and References*)
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

The Ph.D. deadlines below apply to all application documents, including university transcripts and references.

Ph.D.				
	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.

3.12.25.4 Social Work Faculty

Director

Nico Trocmé

Professors

Cindy Blackstock; B.A.(Br. Col.), M.B.A.(McG.), Ph.D.(Tor.)

Myriam Denov; B.A.(Tor.), B.S.W.(McG.), M.A.(Ott.), Ph.D.(Camb.)

Michael MacKenzie; B.Sc., M.Sc.(UWO), M.S.W., M.A., Ph.D.(Mich.)

James Torczyner; B.H.L.(Yeshiva), M.S.W., D.S.W.(Calif., Berk.)

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.(Barnard), 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.)

Tamara Sussman; B.A., B.S.W., M.S.W.(McG.), Ph.D.(Tor.)

Assistant Professors

Alicia Boatswain-Kyte, B.S.W., M.S.W.(McG.), PhD.(Montr.)

Régine Debrose; B.Sc.(Montr.), M.Sc., Ph.D.(McG)

Wanda Gabriel; B.S.W., M.S.W.(McG.)

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.), Ph.D.(Laval)

Marjorie Rabiau; B.Sc.(Alta.), Ph.D.(McG.)

Coordinator of Field Education

Francine Granner; B.S.W., M.S.W.(McG.)

3.12.25.5 Qualifying Year (for Entry into M.S.W. Non-Thesis)

The Qualifying Year is currently closed for admissions.

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 ne

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.

Master of Social W

SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Elective Courses (18 credits)

18 credits of 500- or 600-level courses; up to 6 credits in total may be taken outside the School.

Students in both M.S.W. options are invited to take up to two courses in other departments of the University in areas of study not offered in the School of Social Work.

3.12.25.10 Master of Social Work (M.S.W.) Social Work (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 degree requirements in Social Work and who wish to take 6 credits of approved coursework to focus on gender, sexuality, feminist, and women's studies and issues in feminist research and methods.

Research Project (9 credits)

SWRK 690	(9)	Independent Study Project

Required Courses (21 credits)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3
WMST 601	(3)	Feminist Theories and Methods

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Complementary Courses (15 credits)

3 credits from the following:

WMST 602	(3)	Feminist Research Symposium

OR

3 credits of WMST at the 500 or 600 level;

OR

3 credits in another department approved as a complementary course to the Option in Gender and Women's Studies by an MSW adviser in the School of Social Work.

AND

12 credits of 500- or 600-level courses selected from the School of Social Work.

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
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses (29 credits)

Students must take 29 other elective courses offered within the Faculty or approved as credit equivalencies in order to complete the 132-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade;

b) writing a term essay under independent supervision, for credit, within the Faculty of Law;

c) writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Doctor of Philosophy (Ph.D.) Social Work:

- Master of Arts in Medical Sociology (Thesis and Non-Thesis) with the Social Studies of Medicine Department
- Master of Arts in Sociology (Thesis and Non-Thesis)
- Master of Arts in Sociology – Development Studies Option (Thesis and Non-Thesis)
- Master of Arts in Sociology – Gender and Women's Studies Option (Thesis and Non-Thesis)
- Master of Arts in Sociology – Population Dynamics Option (Non-Thesis)
- Doctor of Philosophy in Sociology
- Doctor of Philosophy in Sociology – Gender and Women's Studies Option
- Doctor of Philosophy in Sociology – Population Dynamics Option

The Department of Sociology has very high standards and an excellent record of placing students in both academic and non-academic careers in institutions ranging from the University of Chicago and Berkeley to StatsCan and CEGEPs. The Department has a stellar record of research publications and a lively graduate program, and we benefit from many new faculty appointments allowing us to be at the forefront of current issues. A large number of M.A. programs are offered, as well as a few at the Ph.D. level (see below). The Department has full access to the resources of StatsCan, with additional training for students.

We have particular strength in the following fields:

- comparative political sociology and development;
- diversity and inequalities;
- population and health.

Availability of Funding

The Department offers a limited number of teaching assistantships. A full teaching assistantship consists of a maximum of 180 hours of work per term. Appointments for a full teaching assistantship span 15 weeks and involve an a

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 in 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/or 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 may1 rg0.9804 05diti0 1 115.8970hough furthSnemimh.D. 1 students;er cours

Undergraduate Program Director

Aniruddha (Bobby) Das

Graduate Program Director

Eran Shor

Professors

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (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 the required courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Course (3 credits)

One 3-credit course, which may be in a cognate field, chosen from the following (subject to the approval of the Graduate Committee.)

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
		Movements/Collective

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 80*3		
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

3.12.26.6 Master of Arts (M.A.) Sociology (Thesis): Development Studies (45 credits)

The M.A. thesis must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

Thesis Courses (30 credits)

SOCI 690	(3)	M.A. Thesis 1
SOCI 691	(6)	M.A. Thesis 2
SOCI 693	(3)	M.A. Thesis 4
SOCI 694	(18)	M.A. Thesis 5

Required Courses (15 credits)

Development Studies Semen165.864 590 1 165.864 396.382 Tm((3))Tj1 0 0 1 70.52 396.382 TmINTD .653

SOCI 651D1

SOCI 60*3

SOCI 651D2

Required Courses (15 credits)

(3) Qualitative Research Methods 1

SOCI 696	(3)	Research Paper 1
SOCI 697	(3)	Research Paper 2
SOCI 699	(12)	Research Paper 4

Required Courses (18 credits)

SOCI 504	(3)	Quantitative Methods 1
SOCI 580	(3)	Social Research Design and Practice
SOCI 600	(3)	Qualitative Research Methods 1
SOCI 603	(3)	Bibliographic Methods 1
SOCI 604	(3)	Bibliographic Methods 2
SOCI 625D1	(0)	Professional Development Seminar in Sociology
SOCI 625D2	(0)	Professional Development Seminar in Sociology
SOCI 652	(3)	Current Sociological Theory

All students must have taken these courses or take them during the first year of the program. Students granted and exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (9 credits)

9 credits (at the 500, 600 or 700 level), which may be in a cognate field, subject to the approval of the graduate committee.

SOCI 506	(3)	Quantitative Methods 3
SOCI 507	(3)	Social Change
SOCI 508 414.262 Tm((3))T	(3) Committee must s	Medical Sociology and Social Psychiatry

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

Master of Ar

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
SOCI 652*	(3)	Current Sociological Theory

* All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (9 credits)

3 credits, ONE of the following courses:

SOCI 515	(3)	Medicine and Society
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

3 credits, one graduate-level course in History of Medicine.

3 credits, one graduate-level course in Social Studies of Medicine.

3.12.26.13 Master of Arts (M.A.) Sociology (Non-Thesis): Population Dynamics (45 credits)

The Population Dynamics Option (PDO) is open to Masters (non-thesis) students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focusses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research projects must be on a topic relating to population dynamics, approv

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 526	()	Indigenous Women's Health and Healthcare
SOCI 535	(3)	Sociology of the Family
SOCI 588	(3)	Biosociology/Biodemography

3.12.26.14 Doctor of Philosophy (Ph.D.) Sociology

Thesis

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

Required Courses

A minimum of three years of study is required.

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

Ph.D. candidates must take examinations in two subfields of Sociology. These fields will be chosen from the Department's areas of specialization.

Examinations must be completed and the student's candidacy for the degree established by August 31 of the Ph.D. 3 year.

Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor.

The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at http://www.mcgill.ca/gps/thesis.

Complementary Courses

(18-30 credits)

12 credits from substantive courses at the 500 level or higher offered by the Department subject to the approval of the Graduate Committee.

SOCI 501	(3)	Capitalism, Socialism, and Democracy
SOCI 502	(3)	Sociology of Fertility
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	(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

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 course

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
		Comparati

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.

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)**

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 reg

vi. Postdoctoral Fellows and Scholars are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged.

vii. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

viii. 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.

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

x. 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.

xi. Access to student services is granted to non-unionized postdocs, who are charged the Student Services fee in the Fall and Winter terms, through their student fee accounts.

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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 the responsibilities of postdocs are:

- to inform themselves of and adhere to the University's policies and/or regulations for postdocs as outlined at *www.mcgill.ca/gps/postdocs*, *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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

4.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

4.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

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

Students who have been granted such a leave will have to register for the term(s) in question and their registration will show as “leave of absence” on their record. No tuition fees will be char

- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

4.10 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:

-

4.12.1.2 About Dentistry

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. Makhoul

Associate Dean, Research and Graduate Dental Education

F. Tamimi (*sabbatical*); S. Komarova (*Interim Associate Dean*)

Assistant Dean, Research and Graduate Dental Education

B. Nicolau

Graduate Program Director

S. Tran

Associate Dean, Postgraduate Dental Education

N. Makhoul

Emeritus Professors

K.C. Bentley

F. Cervero

M. Gornitsky

C. Smith

Professors

P.J. Allison

J.E. Barralet

L. Diatchenko

J.S. Feine

S. Komarova

M.D. McKee

Professors

D. Reinhardt

M. Tabrizian

S. Tran

Associate Professors

S. Abi-Nader

C. Bedos

V. Benhamou Cohen

P.J. Chauvin

A. Chehade

I.M. Fried

G.J. Harasymowycz

R. Hovey

A. Ianella

M.T. Kaartinen

M.E. MacDonald

N. Makhoul

S.I. Miller

F.I. Muroff

M. Murshed

J.M. Myers

B. Nicolau

J.R. Pompura

E. Raviv

M. Schwartz

L. Stone

F.A. Tamimi Marino

R.F. de Souza

F. Tamimi

A.M. Velly

M. Wiseman

J. Zhang

E. Zimmerman

Assistant Professors

S. Arekunnath Madathil, 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. F

Faculty Lecturers

N. Hojjati, G.J. Hwang, C. Iafrancesco, L.A. Iannella, 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, R.M. Lafleur, M.S. Lafontaine, C. Landry, J. Lee, G. Lemieux, O. Levy, H.S. Libenson, P. Lieberman, P. Limniatis, T.C. Luu,, 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, P. Moraga, E. Mota, B. Mui, M. Naman, R. Nasseri, P. Nguyen, T.B.M. Nguyen, J. Nudo, N. Ouatik, S. Papageorgakopoulos, M. Pasoff, J. Patel, O. Peloso, J.T.A.T. Pham, T. Phan, K. Rafla, L. Rainville, H. Rajchgot, C. Reis-Figueiredo, J.L. Retter, V. Reuveni, R. Rezaei, D.N. Richmond, S.A. Rico-Vargas, J. Rizkallah, C. Robin, C. Rode, J. Rouleau, S.M. Ruckenstein, A. Ruest, B. Salis, B. Schneider, E. Schneidman, J. Seguin, M.Senye, M. Sgro, N. Shahidi, A. Sherman, M.E. Silver, W.L. Steinman, P. Sweet, A. Taheri, N.R.G. Thorpe, S. Tikhonova, B. Toukhmanian, C. Tra, C. Tse-Wallerstein, P. Van Wijlen, B. Wazirian, P.R. Weinstein, J. Werbitt, J.A. Werbitt, C. Yea, N.G. Yoffe, N.A.A. Zaki

Adjunct Professors

H. Abd-Ul-Salam, Z. Badran, T.V. Dao, K. El Kholy, Y. Kawai, N. Kishimoto, G. Lavigne, J.M. Retrouvey, J.N. Vergnes

Associate Members

H.F. Al-Jallad, E.L. Franco, S.D. Wurzba

4.12.1.5 Master of Science (M.Sc.) Dental Sciences (Thesis) (45 credits)

Thesis Courses (24-33 credits)

DENT 650	(3)	Thesis Research 1
DENT 651	(6)	Thesis Research 2
DENT 652	(9)	Thesis Research 3
DENT 653	(15)	Thesis Research 4

Required Courses (6 credits)

DENT 505	()	Epidemiology and Data Analysis in Primary Care 1
DENT 663	(1)	Principles of Health Research
DENT 671D1	(1)	Advanced Research Seminar
DENT 671D2	(1)	Advanced Research Seminar

Complementary Courses (6-15 credits)

6-15 credits chosen from the following courses:

ANAT 663D1	(3)	Histology
ANAT 663D2	(3)	Histology
DENT 504	(3)	Biomaterials and Bioperformance
DENT 509	()	Epidemiology and Data Analysis in Primary Care 2
DENT 610	()	Introduction to Craniofacial Research
DENT 654	(3)	Mechanisms and Management of Pain
DENT 655	(3)	Health Technology Assessment
DENT 664	(1)	Health Research Communications
DENT 665	(1)	Leadership and Management Skills in Research
DENT 672	(3)	Applied Mixed Methods in Health Research
DENT 679	()	Epidemiology and Data Analysis in Primary Care 3
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

EPIB 621	(4)	Data Analysis in Health Sciences
EPIB 635	(3)	Clinical Trials
EXMD 610	(3)	Molecular Methods in Medical Research

Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

4.12.1.6 Master of Science (M.Sc.) Dental Sciences (Non-Thesis) (45 credits)

Revision, June 2020. Start of revision.

The M.Sc. in Dental Sciences; Non-Thesis program focuses on research and/or clinical expertise to improve populational health, including diagnosis, prevention, monitoring and control. The program includes a practicum in an organization or a clinic implicated in providing public health services.

Required Courses (21 credits)

DENT 505	(3)	Epidemiology and Data Analysis in Primary Care 1
		Applied Qualitativ

Special

5.2.3 Graduate and Postdoctoral Studies' Mission

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

5.3 Important Dates

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

5.4 Graduate Studies at a Glance

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

5.5 Program Requirements

Refer to *University Regulations & Resour68 l8 647.468 4.1 Tf1 0 0 1 97. t a Glance*ad678 4.1 Tf 1 0 0 1 97. t a Glance5.5

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

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial re

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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 the responsibilities of postdocs are:

- to inform themselves of and adhere to the University's policies and/or regulations for postdocs as outlined at *www.mcgill.ca/gps/postdocs*, *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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

5.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

5.8.4 Leave of Absence for Health and Parental/Familial Reasons

A leave of absence may be granted for maternity or parental reasons or for health reasons (see *University Regulations & Resources* > *Graduate* >

on leave. A summary table of various leav

- Student Rights & Responsibilities
- Student Services – Downto

In undertaking our programs, you benefit from having access to the *McGill Psychoeducational and Counselling Clinic* and the *Departmental Assessment Materials Resource Centre*. To develop their professional skills in assessment, therapy, and supervision, you're equipped with the latest standardized materials and a state-of-the-art venue within which to conduct psychological and cognitive assessments.

The Ph.D. in School/Applied Child Psychology is accredited by the Canadian Psychological Association (CPA). The Ph.D. in Counselling Psychology is also accredited by the CPA. The *Ordre des psychologues du Québec* (OPQ) accredits both the Ph.D. in Counselling Psychology and the Ph.D. in School/Applied Child Psychology.

Important addresses:

CPA
141 Laurier Avenue West, Suite 702
Ottawa ON K1P 5J3, Canada
Telephone: 613-237-2144; 1-888-472-0657
Email: *cpa@cpa.ca*

OCCOQ
1600 Henri Bourassa Blvd. West, Suite 520
Montreal QC H3M 3E2, Canada
Telephone: 514-737-4717; 1-800-363-2643
Email: *ordre@orientation.qc.ca*

OPQ
1100 Beaumont, Suite 510
Mount-Royal QC H3P 3H5, Canada
Telephone: 514-738-1881; 1-800-363-2644
Email: *info@ordrepsy.qc.ca*

Research

Research is an integral part of the Department of Educational and Counselling Psychology. For a comprehensive list of research groups consult our *website*.

Graduate Degrees in Counselling Psychology

section 5.12.1.5: Master of Arts (M.A.) Counselling Psychology (Non-Thesis): Professional/Internship (60 credits)

The aim of this program is to produce graduates who:

1. are trained in the major applied areas of counselling;
2. will be qualified to work in a variety of settings where educational, vocational, personal, and developmental counselling is offered; and
3. lephone: c2 0 1 8.9m(OCCOQ)Tj0 G0 g/F1 8 Tf TmTm06OQ.Q

section 5.12.1.7: Doctor of Philosophy (Ph.D.) Counselling Psychology

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 univ

Master of Education (M.Ed.) Educational Psychology (Non-Thesis) (48 credits)

a. **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.

   See *section 5.12.1.12: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology (48 credits)*.

b. **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.

   See *section 5.12.1.13: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology: Project (48 credits)*.

c. **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.

   See *section 5.12.1.14: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education (48 credits)*.

d. **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.

   See *section 5.12.1.15: Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Inclusive Education: Project (48 credits)*.

e. **Lear**

Doctor of Philosophy (Ph.D.); Educational Psychology

The Ph.D. in Educational Psychology emphasizes the development of research skills and supports both basic and applied research pertaining to all domains of educational psychology. It aims to develop graduates who can demonstrate:

1.

Educational Psychology and School/Applied Child Psychology pr

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 website*.

5.12.1.4 Educational and Counselling Psychology Faculty

Chair
Jeffrey L. Derevensky
Program Directors
Martin Drapeau – *Counselling Psychology*
Tara Flanagan – *M.Ed. Concentrations in Educational Psychology*
Nathan Hall – *Learning Sciences, Health Professions Education*
Steven Shaw – *School/Applied Child Psychology*
Ada L. Sinacore – *Graduate Certificate in Counselling Applied to Teaching*
Ingrid Sladeczek – *Human Development*
Emeritus Professors
Mark W. Aulls; B.S.(Ball St.), M.Ed.(Ind.), Ed.D.(Georgia)
Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)
Janet G. Donald; B.A., M.A.(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

Associate Professors

Jessica Ruglis; B.S.(SUNY, Alban

EDPC 679D1	(3)	Internship: General 1
EDPC 679D2	(3)	Internship: General 1
EDPC 683	(3)	Practicum in Psychological Testing: Personality Assessment
EDPC 684	(3)	Practicum in Psychological Testing: Cognitive Assessment
EDPC 685D1	(3)	Internship: Vocational and Rehabilitation Counselling
EDPC 685D2	(3)	Internship: Vocational and Rehabilitation Counselling

Required Courses (33 credits)

EDPC 606	(3)	Theories of Intervention 1
EDPC 607	(3)	Theories of Counselling 2
EDPC 608	(3)	Group Counselling: Theory
EDPC 609	(3)	Psychological Testing 1
EDPC 615	(3)	Assessment and Diagnosis 1
EDPC 618	(3)	Professional Ethics and the Law
EDPC 624	(3)	Group Counselling: Practice
EDPC 662	(3)	Career Psychology
EDPC 665D1	(3)	Practicum
EDPC 665D2	(3)	Practicum
		Mulicumone65D2

EDPC 684	(3)	Practicum in Psychological Testing: Cognitive Assessment
EDPE 622	(3)	Multiculturalism and Gender
EDPE 627	(3)	Ethical and Professional Practice of Psychology
EDPE 676	(3)	Intermediate Statistics

Complementary Courses (3 credits)

3 credits from the following:

EDPE 682	(3)	Univariate/Multivariate Analysis
EDPE 687	(3)	Qualitative Methods in Educational Psychology

Doctor of Philosophy (Ph.D.) Counselling Psychology

EDSP 705D1	(3)	Practicum: School Psychology
EDSP 705D2	(3)	Practicum: School Psychology
EDSP 710	(3)	Consultation in School Psychology
EDSP 715D1	(3)	Theory and Practice of Supervision
EDSP 715D2	(3)	Theory and Practice of Supervision

Field Placement

12 credits

EDSP 721D1	(3)	Field Placement 1: School Psychology
EDSP 721D2	(3)	Field Placement 1: School Psychology
EDSP 722D1	(3)	Field Placement 2: School Psychology
EDSP 722D2	(3)	Field Placement 2: School Psychology

Internship (24 credits)

24 credits

EDSP 725D1	(12)	Internship: School Psychology
EDSP 725D2	(12)	Internship: School Psychology

Complementary Courses (3 credits)

3 credits from the following:

EDPE 684	(3)	Applied Multivariate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology

5.12.1.10 Graduate Diploma (Gr. Dip.) School/Applied Child Psychology (Post-Ph.D.)

Note: Admission to this program is currently suspended

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses and Clinic-based Practica (30 credits)

The program will be individually tailored to each accepted student in respect of previous studies and experience. Students will not be asked to repeat a course on a topic in which they can demonstrate a high level of competence. The following are expected to be most often required of students.

EDPC 609	(3)	Psychological Testing 1
EDPC 610	(3)	Psychological Testing 2
EDPC 618	(3)	Professional Ethics and the Law
EDPC 682D1	(3)	Practicum: Psychological Testing
EDPC 682D2	(3)	Practicum: Psychological Testing
EDPC 714	(3)	Theory / Models: Family Therapy
EDPE 619	(3)	Child and Adolescent Therapy
EDPE 625	(3)	Practicum 1: School Psychology
EDPE 626	(3)	Practicum 2: School Psychology
EDPE 710	(3)	Consultation in School Psychology

Complementary Courses - Field Placements

Two days per week, one semester each; students select two of these three field experiences; placement in a school covering all grades may be applied to either EDPE 721 or EDPE 722:

EDPE 721	(6)	School Psychology: Elementary
EDPE 722	(6)	School Psychology: Secondary
EDPE 723	(6)	School Psychology: Community

Internship

One year full time or two years half-time

EDPE 725	(12)	Internship 1 - School Psychology
EDPE 726	(12)	Internship 2 - School Psychology

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this Post-doctoral Graduate Diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the American Psychological Association (APA). Graduates of a respecialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the Post-doctoral Graduate Diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

5.12.1.11 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/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Required Courses (9 credits)

EDPE 575	(3)	Statistics for Practitioners
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction

Complementary Courses (27 credits)

27 credits from the following:

EDPC 501	(3)	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 508	(3)	Seminar in Special Topics
EDPC 509	(3)	Individual Reading Course
EDPC 540	(3)	Social Responsibility and Relationships in Digital Age
EDPE 595	(3)	Seminar in Special Topics 1
EDPE 605	(3)	Research Methods
EDPE 697	(6)	Special Activity 1
EDPE 698	(6)	Special Activity 2

Elective Courses (12 credits)

500-, 600-, or 700-level courses to be taken from courses offered by the Department or with approval of the Program Director, from other departments.

5.12.1.12 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology (48 credits)

The M.Ed. in Educational Psychology; Non-Thesis-General Educational Psychology 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
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)	Socio-Cultural 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
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 543	(3)	Family, School and Community
EDPI 645	(3)	Assessment For Effective Intervention
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.

5.12.1.13 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): General Educational Psychology: Project (48 credits)

The M.Ed. in Educational Psychology: Non-Thesis - General Educational Psychology-Project 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)	Socio-Cultural 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

Master of Education (M.Ed.) Educational 3rretion (M.Ed.) Educationoral

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
		Community-Based Field (6)6)

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 676	(3)	Intermediate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology
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

5.12.1.16 Master of Education (M.Ed.) Educational Psychology (Non-Thesis): Learning Sciences (48 credits)

The M.Ed. in Educational Psychology: Non-Thesis-Learning Sciences focuses on the study of teaching and learning in formal and informal contexts, including cognitive, social and affective processes. Application in instructional design including the use of technology, program/curriculum development and evaluation.

Required Courses (24 credits)

EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences
EDPE 575	(3)	Statistics for Practitioners
EDPE 602	(3)	Uses of Research Findings in Education
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 636	(3)	Motivation and Instruction
EDPE 640	(3)	Emerging Technologies for Educational Change
EDPE 670	(3)	Educational Assessment and Evaluation

Complementary Courses (21 credits)

21 credits from the following:

EDPC 502	(3)	Group Processes and Diversity
EDPC 504	(3)	Communication and Critical Conflict Resolution
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 502	(3)	Theories of Human Development
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPE 668	(3)	Advanced Seminar in Learning Sciences
EDPE 699D1	(6)	Special Activity
EDPE 699D2	(6)	Special Activity

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 654	(3)	Instruction/Curriculum Adaptation

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.

5.12.1.17 Master of Arts (M.A.) Educational Psychology (Thesis): Health Professions Education (45 credits)

The Master of Arts (M.A.) Educational Psychology (Thesis); Health Professions Education focuses on the practice of teaching and learning as they happen in the health professions and throughout the lifespan. Student admission and supervision is done jointly with the Institute of Health Sciences Education (IHSE).

Thesis Courses (18 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5

Prerequisite Course (or equivalent) (3 credits)

EDPE 575	(3)	Statistics for Practitioners

Required Courses (15 credits)

EDPE 605	(3)	Research Methods
EDPE 637	(3)	Issues in Health Professions Education
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis
EDPH 689	(3)	Teaching and Learning in Higher Education

Complementary Courses (12 credits)

12 credits from the following:

EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences
EDPE 635	(3)	Theories of Learning and Instruction
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 663	(3)	Learning Environments
EDPE 664	(3)	Expertise, Reasoning and Problem Solving
EDPE 666	(3)	Foundations of Learning Science
EDPE 668	(3)	Advanced Seminar in Learning Sciences
EDPE 687	(3)	Qualitative Methods in Educational Psychology

or other 500-,or 600-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)

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_counselling_psychology.

Thesis Courses (24 credits)

EDPE 604	(3)	Thesis 1
EDPE 607	(3)	Thesis 2
EDPE 693	(3)	Thesis 3
EDPE 694	(3)	Thesis 4
EDPE 695	(6)	Thesis 5
EDPE 696	(6)	Thesis 6

Required Courses (15 credits)

EDPE 632D1	(1.5)	Research Seminar
EDPE 632D2	(1.5)	Research Seminar
EDPE 672	(3)	Human Development Seminar 1
EDPE 673	(3)	Human Development Seminar 2
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

Complementary Courses (6 credits)

3-6 credits from the following:

EDPE 515	(3)	Gender Identity Development
EDPE 616	(3)	Cognitive Development
EDPE 620	(3)	Developmental Psychopathology
EDPE 623	(3)	Social-Emotional Development

0-3 credits from the following:

EDPE 633	(3)	Research Internship 1
EDPI 642	(3)	Inclusion: Past, Present and Future
EDPI 665	(3)	Teaching of Reading

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

5.12.1.19 Master of Arts (M.A.) Educational Psychology (Thesis): Learning Sciences (45 credits)

The M.A. in Educational Psychology; Learning Sciences focuses on educational research and its application to practice. Exploration and application of contemporary psychological and educational theories and empirical studies in (a) cognition, learning, and instruction; (b) self-regulation, motivation, and emotion; (c) technology-rich learning environments; and (d) social, cultural, and historical foundations of learning. Training in research design and data analytic techniques through coursework and thesis supervision.

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 (15 credits)

EDPE 605	(3)	Research Methods
EDPE 656	(3)	Applied Theory/Methods in the Learning Sciences
EDPE 666	(3)	Foundations of Learning Science
EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/Multivariate Analysis

Complementary Courses (6 credits)

EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences
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 500-, or 600-level courses offered by the Department and with the approval of the supervisor and the Program Director.

5.12.1.20 Doctor of Philosophy (Ph.D.) Educational Psychology: Human Development

The Ph.D. Educational Psychology: Human Development focuses on core areas of human development such as cognitive, language, social, personality, and gender development among children and adolescents with diverse trajectories and from various family, educational and community contexts. The program is unique in examining developmental trajectories from a variety of interdisciplinary perspectives. The student's dissertation should focus on an issue in the field of human development related to educational psychology.

Required Courses (9 credits)EDP4 1 fere 0 1 125wledge. Itcmust s o 329.16 397.(8DPE 9 fere 0 1 125w 1 380.175 3484962 78 fere 0 1 1250 0 intedis1 0 0pr1 511.

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.

5.12.1.21 Doctor of Philosophy (Ph.D.) Educational Psychology: Learning Sciences

The Ph.D. in Educational Psychology; Learning Sciences focuses on theory and research on understanding and improving learning and teaching in formal and informal educational settings including K-12 and post-secondary institutions, the workplace, professional practice, and virtual learning communities. Practical training in research design, advanced data analytic techniques, and professional development through coursework and dissertation supervision.

Required Courses (15 credits)

EDPE 704	(3)	Professional Development Seminar 1
EDPE 705	(3)	Professional Development Seminar 2
EDPE 706	(3)	Professional Development Seminar 3
EDPE 707	(3)	Professional Development 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

or other 600-, 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

3 credits from the following:

EDPE 684	(3)	Applied Multivariate Statistics
EDPE 687	(3)	Qualitative Methods in Educational Psychology

5.12.2 Integrated Studies in Education

5.12.2.1 Location

Department of Integrated Studies in Education
Education Building, Room 244
3700 McTavish Street
Montreal QC H3A 1Y2
Canada
Website: *www.mcgill.ca/dise*

Graduate Programs (Graduate Certificate, M.A., MATL, and Ph.D.):
Education Building, Room 244

Telephone: 514-398-4527 (Ph.D./M.A.: ext. 09133; MATL/Graduate Certificates: ext. 094476)
Fax: 514-398-4529

The administrative office is open Monday to Friday from 9:30 a.m. to 4:00 p.m.

5.12.2.2 About Integrated Studies in Education

The Department offers graduate students the opportunity to enhance their knowledge related to specific areas of inquiry in the field of education through our M.A. degrees (thesis or non-thesis options), including our MATL leading to teacher certification, Ph.D. in Educational Studies, and graduate certificates. The Department offers the following programs:

Six **Graduate Certificates** (15 credits):

- Graduate Certificate in Educational Leadership 1
- Graduate Certificate in Educational Leadership 2
- Graduate Certificate in Educational Leadership 3
- Graduate Certificate in International Leadership in Educational and Administrative Development
- Graduate Certificate in Teaching English as a Second Language
- Certificat d'études supérieures en pédagogie de l'immersion française

Three **M.A.** Thesis and Non-Thesis degree programs (45 credits) in the following areas:

- Education and Society
- Educational Leadership
- Second Language Education

The Department offers an M.A. in Teaching and Learning (**MATL**) (60 credits) in the following areas:

- Social Sciences
- English Language Arts
- Science and Technology
- Mathematics
- English or French Second Language

Note: The French Second Language program is currently not offered.

The Department also offers a **Ph.D.** in Educational Studies.

Master of Arts in Education and Society

The M.A. in Education and Society consists of a thesis or non-thesis program. The program focuses on two main fields of study—Culture and Values in Education and Teaching, Learning, and Curriculum—reflecting distinct but overlapping areas of educational inquiry. Study in Culture and Values in Education may focus on critical theory, philosophy, art and aesthetics, race/class/gender issues in education, or international and comparative education. The Teaching, Learning, and Curriculum focus emphasizes current perspectives on pedagogy and curriculum, teacher education, in-and-out-of-school learning, practitioner research, and classroom practice. The program brings to bear diverse applied theoretical perspectives, including philosophy, sociology, cultural studies, policy studies, gender studies, critical pedagogy, and multi-literacies. Graduates of the program go on to doctoral programs or work in education and non-profit settings. Many in-service teachers take this program for professional development.

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section 5.12.2.7: Master of Arts (M.A.) Education and Society (Thesis): Mathematics and 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.

section 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 course work, but includes two projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The projects create an opportunity to investigate a particular interest.

section 5.12.2.15: 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.

Master of Arts in Teaching and Learning (MATL)

The M.A. in Teaching and Learning is a professional program leading to Quebec teacher certification for those already holding an undergraduate degree in a Quebec Ministry of Education-identified teachable subject area (Mathematics, Science & T

section 5.12.2.25: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): English Language Arts Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach English Language Arts.

section 5.12.2.26: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis):Mathematics Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Mathematics.

section 5.12.2.27: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Social Sciences Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Social Sciences.

section 5.12.2.28: Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Science and Technology Option (60 credits)

This program is comprised of course work, coupled with an internship. Upon completion, students are recommended to the Quebec Ministry of Education for certification to teach Science and Technology.

Doctor of Philosophy in Educational Studies

The Ph.D. in Educational Studies prepares graduates for careers in a variety of education-related fields. The Ph.D.'s core areas are curriculum and literacy, cultural and international studies in education, educational leadership, and second-language education. The program has been designed to ensure flexibility, and students experience both multidisciplinary and discipline-specific research opportunities. The program begins with a set of common courses and proceeds to specialization through advanced course work and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members. Graduates find work as researchers, teachers, consultants, curriculum developers, and administrators in a wide range of settings, including universities, school boards, government agencies, and international NGOs.

section 5.12.2.29: Doctor of Philosophy (Ph.D.) Educational Studies

The Ph.D. in Educational Studies provides an integrative perspective on education by drawing on a range of related disciplines and research orientations. Students develop scholarly and innovative expertise in at least one of three contexts of inquiry and awareness of all three:

a. the broad context of culture and society;
b. the international, national, and local contexts of educational leadership and policy studies; and
c. the more specific contexts of schools and other sites of teaching and learning.

Students begin with a set of common core courses and proceed to specialization through advanced course work and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members.

section 5.12.2.30: Doctor of Philosophy (Ph.D.) Educational Studies: Gender and W

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

Graduate Certificates, M.A., and Ph.D. Programs

1. Applicants to the Certificate and M.A. programs must hold a bachelor's degree from a recognized university. A minimum standing equivalent to a CGPA of 3.0/4.0, or 3.2/4.0 for the last two full-time academic years, is required. A concentration of courses related to the area chosen for graduate work is usually required. (See #5 below)

   Applicants to the Ph.D. program must hold an M.A. in Education or a recognized equivalent degree from a recognized university. The applicant's record should indicate high academic standing (a minimum CGPA of 3.0/4.0) and evidence of research competence in the proposed area of doctoral research.

2. Applicants to the Certificate and M.A. programs must submit:

   - a current curriculum vitae;
   - a letter of intent specifying academic and professional experience and interests (specifically, research interests for the Thesis option or project interests for the Non-Thesis Project option).

   Applicants to the Ph.D. in Educational Studies program must submit:

   - a current curriculum vitae;
   - a letter of intent identifying the applicant's proposed research topic, potential supervisor, and expected professional direction. Please note that it is the Ph.D. applicant's responsibility to secure a supervisor as part of the admission process;
   - a four- to five-page summary of the proposed research topic identifying the applicant's main research questions, the research trends that have led to the questions, ways in which the research could be conducted, and relevant references.

3. Applicants must submit two letters of recommendation, at least one of which must be from a university-level instructor; the other may be from an administrator in an educationally relevant context.
4. Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must meet one of the following English proficiency criteria:

   - *IELTS* with a minimum overall band of 7.0 with a minimum writing score of 7.0; or
   - *TOEFL* iBT (Internet-based test) – minimum overall band of 92 with a minimum score of 22 each for the Writing and Speaking sections and a minimum of 20 each for the Reading and Listening sections.

   For applicants to the **Master of Arts in Teaching and Learning (MATL) (Non-Thesis)**:

   - *IELTS* with minimum overall band of 7.0 with a minimum of 7.0 each for the Writing, Speaking, Listening, and Reading sections; or
   - *TOEFL* iBT (Internet-based test) – minimum overall band of 92 with a minimum score of 22 each for the minimum of 20 each for the 373.5search in Delicame 33

Graduate Certificate in Teaching English as a Second Language		
Application Opening Dates	**Application Deadlines**	
		Current McGill Students (any

Emeritus Professors

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; B.Ed, M.A., Ph.D.(McG.)

Jacques J. Rebuffot; B. ès L., L. ès L., D.E.S.(Aix-Marseille), Dip. I.E.P., Dr. 3rd Cy.(Strasbourg)

Bernard Shapiro; B.A.(McG.), M.A.T

Assistant Professors

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

Hannah Chestnutt; B,Sc.(Trent), B.Ed.(Trent-Qu), M.Ed., Ph.D.(Glas.)

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
EDEM 690	(3)	Research Methods: Theory and Practice

Elective Courses (15 credits)

15 credits at the 500, 600, or 700 level, chosen in consultation with the Thesis Supervisor or Graduate Program Director. The student may take a maximum of 6 credits from outside the Department.

5.12.2.6 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

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 non-thesis project options and is suitable for practitioners interested in professional development with a theoretical orientation.

Required Courses (9 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDER 600	(3)	Globalization, Education & Change
EDER 609	(3)	Education and Philosophical Thought

Complementary Courses (21 credits)

21 credits from the following:

EDEC 602	(3)	Foundations in Curriculum
EDEC 606	(3)	Autobiographical Approaches in Education
EDEC 612	(3)	Digital Media and Learning
EDEC 617	(3)	Special Topics 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
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
		Philosoph

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)

preparation, and research in both of these areas. It will produce graduates: who view improving mathematics and science education from a teaching and learning perspective; have developed an understanding of research in mathematics and science education; and have sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

Project Courses (12 credits)

EDER 633	(6)	Project 1
EDER 634	(6)	Project 2

Required Courses (15 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
EDEM 690	(3)	Research Methods: Theory and Practice

Complementary Courses (12 credits)

3 credits from the following:

EDEC 646	(3)	Sociocultural and Epistemic Understandings of Science
EDEC 647	(3)	Sociocultural and Epistemic Understandings of Mathematics

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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

6 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

5.12.2.14 Master of Arts (M.A.) Educational Leadership (Thesis) (45 credits)

Thesis Courses (24 credits)

EDEM 621	(6)	Thesis 1
EDEM 623	(6)	Thesis 2
EDEM 699	(12)	Thesis 3

Required Courses (9 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education

Complementary Courses (6 credits)

6 credits selected from the following courses:

EDEC 606	(3)	Autobiographical Approaches in Education
EDEM 690	(3)	Research Methods: Theory and Practice
EDEM 692	(3)	Qualitative Research Methods
EDSL 630	(3)	Qualitative/Ethnographic Methods

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.12.2.15 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
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
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education
EDER 636	(3)	Critical and Ethical Dimensions of Sexualities Education

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.12.2.17 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Project (45 credits)

Research Project (12 credits)

EDEM 625	(6)	Project 1
EDEM 627	(6)	Project 2

Required Courses (12 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education
EDEM 690	(3)	Research Methods: Theory and Practice

Complementary Courses (15 credits)

9 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

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
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education
EDER 636	(3)	Critical and Ethical Dimensions of Sexualities Education

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

5.12.2.18 Master of Arts (M.A.) Educational Leadership (Non-Thesis): Gender and Women's Studies (45 credits)

Research Project (12 credits)

EDEM 625	(6)	Project 1
EDEM 627	(6)	Project 2

Required Courses (15 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDEM 610	(3)	Leadership in Action
EDEM 673	(3)	Leadership Theory in Education
EDEM 690	(3)	Research Methods: Theory and Practice
WMST 601	(3)	Feminist Theories and Methods

Complementary Courses (15 credits)

9 credits selected from the following:

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 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
EDER 625	(3)	Special Topics in Educational Studies
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education
EDER 636	(3)	Critical and Ethical Dimensions of Sexualities Education

3 credits selected from the following, must be either:

EDER 636	(3)	Critical and Ethical Dimensions of Sexualities Education
EDER 643	(3)	Women, Education and Development
		Feminist Research Symposium

Eanist Research Sy Symposium

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/women's issues (may be in the Department or outside).

5.12.2.21 Master of Arts (M.A.) Second Language Education (Non-Thesis) (45 credits)

The M.A. in Second Language Education consists of a 45-credit thesis or non-thesis program. It provides an overview of the state of the art in second language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning areas (for example, content-based second language teaching or "immersion"), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second language teaching practitioners, program administrators, or evaluators.

Required Courses (12 credits)

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDPE 575	(3)	Statistics for Practitioners
EDSL 623	(3)	Second Language Learning
EDSL 627	(3)	Instructed Second Language Acquisition Research

Complementary Courses (15 credits)

- are organized and evaluated by the Faculty of Education's Internships & Student Affairs Office (ISA); student teachers are not permitted to contact potential host schools to obtain a placement (unless on paid contract; see below); however, student teachers are permitted to submit preferences and requests to ISA, which are taken into account and subject to ISA policies and host school availability;
- are completed with an eligible Cooperating Teacher(s) as mentor(s), unless a student teacher has received ISA approval to use a paid teaching contract at an eligible host school to satisfy the Internship requirements (see *section 5.12.2.22.3*

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 excused absence must be made up, generally, at the end of the Internship.

In the case of a **foreseeable absence** (e.g., religious observation, varsity sporting event, etc.), student teachers must advise the below noted parties before the start of the Internship or, if the Internship has already commenced, **at least two weeks in advance**. In the case of an **unforeseeable absence** (e.g., illness), student teachers must advise the below noted parties as soon as possible:

- Host School Administrative Office
- Co-operating Teacher(s)
- McGill Field Supervisor
- McGill ISA Placement Coordinator

Absences for any other reason, including but not limited to marriage, family events, vacation, extracurricular activities, employment, or conflicting courses are exceptionally permitted by the ISA Director on a case-by-case basis. Any request for absence must be sent to your Placement Coordinator a minimum of 2 weeks before the proposed absence. Students who may need to defer the Internship or rearrange their course schedule should contact their Program Coordinator.

For student teachers on a paid contract, in case of a conflict between the University's attendance policies and that of the host school, please contact the ISA.

Judicial Record Verification

Quebec's Education Act, section 261.0.2, grants school boards the right to verify the judicial record of any person regularly in contact with minor students, and this includes student teachers. Each school board or private school may have its own administrative procedures for verification. Students are responsible for complying any request for judicial record verification. Any student unable to obtain the required security clearance will not be permitted to undertake their Internship(s) and, consequently, will be withdrawn from the MATL program as the Internships are a mandatory requirement. Additional information about the judicial record verification process can be found on the *www.mcgill.ca/isa/teaching/placements*.

Work Permit for International Students

In order to be in compliance with government regulations, international students (students who are not Permanent Residents or citizens of Canada) should hold a valid Internship/Co-op Work Permit issued by Citizenship and Immigration Canada (CIC) to complete their Internships. This permit is independent from the paid off-campus work permit which is included as part of the study permit and requires a separate application. For detailed instructions and assistance with the application, students should contact *www.mcgill.ca/internationalstudents*.

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 Teacher Summative (50%); on both Summatives, which are marked on a 1–5 point scale across 12 Professional Competencies (5 being the highest possible mark), each mark out of 5 is assigned a 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 1 (EDIN 610) and the Professional Seminar 1 course (EDPS 610) in order to proceed to Internship 2 (EDIN 620) and the Professional Seminar 2 course (EDPS 620).

The *section 1.2.2: Failure Policy* applies. Where a student is e

1. The Code addresses the interdependent duties, rights, and responsibilities of student teachers, faculty members, and educational partners.
2. By addressing common issues and needs, the Code seeks to articulate and make explicit ethical principles that transcend disciplinary boundaries. These principles reflect the fundamental values that are expressed in the duties, rights, and responsibilities of all involved in Teacher Education.
3. The Code requires a reasonable flexibility in the implementation of common principles. It is designed to help those involved in Teacher Education, as a matter of sound ethical reasoning, to understand and respect the contexts in which they work and accommodate the needs of others.
4. The Code seeks to encourage continued reflection and thoughtful response to ethical issues. It does not seek definitive answers to all ethical questions or situations. Rather, it seeks to outline the guiding principles to ethical conduct and to identify major issues that are essential to the development and implementation of this Code.

- **Context of an Ethics Framework for Student Teachers**

  The principles and norms guiding ethical conduct are developed within an ever-evolving, complex societal context, elements of which include the need for reflective action and ethical principles.

  Education is premised on a fundamental moral commitment to advance and construct kno

Acknowledges that any potentially harmful practices (e.g., science labs and physical education activities) must be balanced with anticipated benefits and conducted in a prudent, informed manner

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
		Fou PS 610

EDEM 609	(3)	Critical Perspectives in Educational Theory and Research
EDIN 610	(7)	Internship 1
EDIN 620	(8)	Internship 2
EDPS 600	(3)	Introductory Professional Seminar
EDPS 610	(2)	Professional Seminar 1
EDPS 620	(1)	Professional Seminar 2
EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 515	(0)	English Exam for Teacher Certification
EDTL 601	(3)	Cross-curricular Teaching Methods
EDTL 604	(3)	Techniques for Assessment
EDTL 607	(3)	Language and Policy in Quebec Education
EDTL 609	(3)	Diverse Learners
EDTL 629	(3)	Applied Methods in Teaching Secondary Eng. Language Arts
EDTL 630	(3)	Advanced Applied Methods in Teaching Sec English Lang Arts
EDTL 640	(3)	Teacher Inquiry and Action Research

Complementary Courses (6 credits)

3 credits selected from:

EDER 600	(3)	Globalization, Education & Change
EDTL 508	(3)	Critical Influences on Educational Praxis

3 credits selected from:

EDER 609	(3)	Education and Philosophical Thought
EDER 615	(3)	Introduction to Philosophy of Education
EDTL 506	(3)	Philosophy of Education

5.12.2.26 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis):Mathematics Option (60 credits)

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised of 45 credits of coursework coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education.

EDPS 620	(1)	Professional Seminar 2
EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 515	(0)	English Exam for Teacher Certification
EDTL 601	(3)	Cross-curricular Teaching Methods
EDTL 604	(3)	Techniques for Assessment
EDTL 607	(3)	Language and Policy in Quebec Education
EDTL 609	(3)	Diverse Learners
EDTL 627	(3)	Applied Methods in Teaching Mathematics in Secondary School
EDTL 628	(3)	Advanced Methods in Teaching Mathematics in Sec. School
EDTL 640	(3)	Teacher Inquiry and Action Research

Complementary Courses (9 credits)

3 credits selected from:

EDER 600	(3)	Globalization, Education & Change
EDTL 508	(3)	Critical Influences on Educational Praxis

3 credits selected from:

EDEC 647	(3)	Sociocultural and Epistemic Understandings of Mathematics
EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science

3 credits selected from:

EDER 609	(3)	Education and Philosophical Thought
		Introduction to Philosoph3 Kno3 Kno(3)

EDTL 500	(3)	Applications of Educational Psychology Across Classrooms
EDTL 515	(0)	English Exam for Teacher Certification
EDTL 601	(3)	Cross-curricular Teaching Methods
EDTL 604	(3)	Techniques for Assessment
EDTL 607	(3)	Language and Policy in Quebec Education
EDTL 609	(3)	Diverse Learners
EDTL 633	(3)	Applied Methods in Teaching Social Science in Sec. School
EDTL 640	(3)	Teacher Inquiry and Action Research

Complementary Courses (12 credits)

3 credits selected from (in accordance with second specialization in Geography or Ethics & Religious Culture):

EDTL 612	(3)	Adv Applied Meth in Teach'g Ethics&ReligCulture in Sec Sch
EDTL 634	(3)	Adv Applied Meth in Teaching Social Sciences in Sec. School

3 credits selected from:

EDEC 648	(3)	Historical Knowledge and Social Change
EDER 626	(3)	Theory and Praxis of Ethics and Religious Education

3 credits selected from:

EDER 600	(3)	Globalization, Education & Change
EDTL 508	(3)	Critical Influences on Educational Praxis

3 credits selected from:

EDER 609	(3)	Education and Philosophical Thought
EDER 615	(3)	Introduction to Philosophy of Education
EDTL 506	(3)	Philosophy of Education

5.12.2.28 Master of Arts (M.A.) in Teaching and Learning (Non-Thesis): Science and Technology Option (60 credits)

The M.A. in Teaching and Learning Program is a 60-credit, post-graduate degree leading to teacher certification. It is comprised 45 credits of coursework, coupled with 15 credits (minimum of 735 hours) of internship. This professional program leads to teacher certification to those already holding an undergraduate degree in a teachable subject area identified by the Quebec Ministry of Education. The program, which targets those with formal and/or non-formal teaching experience, begins with mandatory courses in the Summer term. The specific course sequence and progression leads students to complete the program in five consecutive terms on a full-time basis. The program must be completed within three years. Alternatively, the program can be followed on a part-time basis, in which case all program requirements must be completed within five years. Throughout the MATL, emphasis will be on the demonstration of mastery of the Québec Ministry of Education professional competencies. Upon completion, students are recommended to the Quebec Ministry of Education for certification.

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
		Language and Policy in Quebec Educationy in Quebecda3)

EDEC 706	(3)	Textual Approaches to Research
EDEC 707	(3)	Interpretive Inquiry
EDEM 692	(3)	Qualitative Research Methods
EDSL 630	(3)	Qualitative/Ethnographic Methods

Elective Courses

3-12 credits

Elective courses required in the student's Ph.D. plan of study will be determined in consultation with the Doctoral Advisory Committee depending on the

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
		Adv

EDEC 708	(3)	PhD Seminar in Practice-Based Teacher Education 1
EDEC 709	(3)	PhD Seminar in Math and Science Education 2

Note: EDEC 701 is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses

3-9 credits

3 credits of graduate-level courses in curriculum, from the following:

EDEC 646	(3)	Sociocultural and Epistemic Understandings of Science
EDEC 647	(3)	Sociocultural and Epistemic Understandings of Mathematics

0-3 credits of advanced quantitative methods, as listed below. Students who have taken an equivalent course in quantitative methods, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

EDPE 682	(3)	Univariate/Multivariate Analysis

0-3 credits of qualitative methods or advanced research design from the following: Students who have taken an equivalent course in qualitative methods or advanced research design, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

EDEC 705	(3)	Advanced Research Designs
EDEC 706	(3)	Textual Approaches to Research
EDEC 707	(3)	Interpretive Inquiry
EDEM 692	(3)	Qualitative Research Methods
EDSL 630	(3)	Qualitative/Ethnographic Methods

Elective Courses

0-9 credits

Depending on the student's prior coursework and in consultation with the Supervisor and/or Doctoral Advisory Committee, an additional 0-9 credits of elective courses at the 500 level or higher may be required.

5.12.2.33 Graduate Certificate (Gr. Cert.) Educational Leadership 1 (15 credits)

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.

Graduate Certificate (Gr

courses are delivered online asynchronously, with students accessing learning material and engaging in online discussions. Courses are offered online during the fall, winter, and spring semesters, and also include an intensive summer component on the McGill campus.

Required Courses (15 credits)

EDLE 601	(3)	Resource Administration & Fiscal Accountability
EDLE 602	(3)	Marketing & Strategy in International Education Leadership
EDLE 603	(3)	Educational Planning and Evaluation
EDLE 604	(3)	Education and Internationalization
EDLE 605	(3)	Leading for Success in Educational Institutions

5.12.2.37 Graduate Certificate (Gr. Cert.) Teaching English as a Second Language (15 credits)

This 15-credit certificate is designed as professional development for in-service teachers and candidates with a background in education, language studies, linguistics, or a related field, or as preparation for application to our M.A. in Second Language Education. The five courses that comprise the certificate provide a solid background and offer in-depth study in the field of second-language education from a range of perspectives and with a focus on research and applications to teaching. Please note that this certificate does not lead to teacher certification.

The Graduate Certificate in TESL is designed to be available to students worldwide. Courses are offered in a combination of online and face-to-face formats, and sequenced in such a way that students can complete the certificate in one year. The maximum time for completion is five years. The first three courses are offered online, and can be undertaken anywhere an Internet connection is available. The final two courses are offered face-to-face either on-site at McGill or at off-site locations with collaborative partners, if numbers warrant.

Required Courses (15 credits)

Online Courses

EDSL 505	(3)	Second Language Acquisition Applied to Classroom Contexts

5.12.3 Kinesiology and Physical Education

5.12.3.1 Location

Department of Kinesiology and Physical Education
Sir Arthur Currie Memorial Gymnasium
475 Pine Avenue West
Montreal QC H2W 1S4
Canada
Telephone: 514-398-4184, ext. 0302
Fax: 514-398-4186
Email:
Website: *www.mcgill.ca/edu-kpe*

5.12.3.2 About Kinesiology and Physical Education

The Department of Kinesiology and Physical Education provides a large variety of research opportunities in a number of areas related to human health and physical activity.

Master's of Science Program

Examples of research pursued as part of the M.Sc. program include the following areas:

Exercise Physiology :

- obesity treatment, public health surveillance, and health;
- adaptive response of skeletal muscle in health, nutrition, disease, and aging;
- exercise and nutritional interventions designed to manage and treat chronic diseases;
- the impact of sex and sex hormones on neurovascular physiology;
- clinical and integrative exercise in cardio-respiratory physiology;
- muscle physiology and biophysics.

Biomechanics and Neuroscience :

- ergonomics evaluation of fatigue and musculoskeletal disorders;
- walking and running locomotion gait research;
- sport equipment design and evaluation (e.g., helmets, footwear);
- mobility in healthy and aging people, and in people with disabilities;
- epigenetic modifications associated with brain and spinal cord postnatal development.

Master's of Arts Program

Examples of research pursued as part of the M.A. program include the following areas:

Exercise and Health Psychology :

- psychosocial determinants of health behaviour, body-related emotions, and physical self;
- motivation in youth sport and physical activity;
- school and community-based physical activity promotion;
- promoting emotional well-being and quality of life through physical activity and sport.

Sports Psychology :

- coaching expertise;
- team building;
- psychology of athletic injuries (concussions);
- hockey violence.

Adapted Physical Activity :

- physical activity participation in the community for people with one or multiple disabilities, including developmental, emotional, intellectual, and or physical disabilities;
- self-regulation of physical activity and physical health for individuals with one or multiple disabilities;
- physical activity for people with attention-deficit hyperactivity disorder (ADHD) and movement difficulties;
- motivation, self-determination, coaching, participation, and/or social inclusion of children, youth, or adults with disabilities.

***Sport, Physical, and Health Education Research in Society*:**

- physical and health education pedagogy, curriculum, and instruction;
- narrative conceptions of knowledge and physical education teacher education;
- sociology and cultural studies of sport, recreation, and leisure;
- historical perspectives of sport and Canadian society;
- indigenous sport and settler-colonialism.

Doctor of Philosophy Program

The Ph.D. in kinesiology sciences provides opportunities for in-depth research in areas such as:

- **Biomechanics and Neuroscience**, which aims to understand human structure and function interactions between biology (muscles, bones, joints), mechanics (forces, acceleration, motion) and/or the nervous system (brain, nerves, genetics).
- **Exercise Physiology**, which tests the effects of exercise and physical activity on functional, health, and performance outcomes in healthy, clinical, and athletic populations.
- **Physical and Health Education**, which studies physical and health education programming, physical education teacher experiences, curriculum studies, and teacher education.
- **Sport Sociology & Cultural Studies**, which corresponds to the sociocultural study of sport, recreation, and leisure across a variety of contexts.
- **Adapted Physical Activity**, which investigates, in real world settings, the physical activity and sport participation of people living with one or multiple disabilities, including developmental, emotional, intellectual, and/or physical disabilities.
- **Sport, Exercise, and Health Psychology**, which aims to understand how psychological and social factors influence behavioural outcomes (e.g., sport performance, exercise motivation), and psychosocial development, health, and well-being.

section 5.12.3.5: Master of Arts (M.A.) Kinesiology and Physical Education (Thesis) (45 credits) **and** ***section 5.12.3.6: Master of Science (M.Sc.) Kinesiology and Physical Education (Thesis) (45 credits)***

The thesis programs in Kinesiology and Physical Education are designed to help students develop research skills and expertise in their selected areas of research. All students must have a physical science background to study in the M.Sc. program and a social-psychological background to study in the M.A. program. Students are supervised by a faculty researcher in their respective laboratory or clinical locations.

These research programs often lead to career advancement in academic, scholastic, industrial, clinical, and/or social health care settings.

section 5.12.3.7: Master of Arts (M.A.) Kinesiology and Physical Education (Non-Thesis) (45 credits) **and** ***section 5.12.3.8: Master of Science (M.Sc.) Kinesiology and Physical Education (Non-Thesis) (45 credits)***

The non-thesis programs are currently not offered.

The non-thesis programs in Kinesiology and Physical Education are intended to help students develop professional skills related to their careers in kinesiology and physical education who do not have an interest in research. Students will work with a supervisor and will take a number of courses in the academic areas of interest and will also complete a research project in the area of interest.

section 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 breadth of kinesiology research. Students with a Master's degree in kinesiology or related discipline or equivalent background will qualify to apply. Students are supervised by a faculty researcher in their respective laboratory or clinical location(s). Students will complete a number of courses, including a capstone course intended to survey contemporary issues in kinesiology research. Students will become experts in their research field while obtaining knowledge on the multidisciplinary nature of Kinesiology Sciences.

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

Assistant Professors

Tyler Churchward-Venne; B.A.(York), M.Sc.(UWO), Ph.D.(McM.)

Benoit Gentil; B.Sc.(UJF), M.Sc.(Paris VII), Ph.D.(UJF)

Jenna Gibbs; B.Sc.(UWO), Ph.D.(Penn. St.)

Jordan Koch; B.A.(UWO), M.Sc.(Calg.), Ph.D.(Alta.)

Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Lee Schaefer; B.Ed.(Regina), M.Ed., Ph.D.(Alta.)

Charlotte Usselman; B.Sc.(Brock), M.Sc., Ph.D.(UWO)

F

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 693	(6)	Thesis Research 3
EDKP 694	(6)	Thesis Research 4

Required Courses (6 credits)

EDKP 605	(3)	Research Methods 1
EDKP 617	(0)	Seminar in Kinesiology and Physical Education 1
EDKP 618	(0)	Seminar in Kinesiology and Physical Education 2
EDKP 619	(0)	Seminar in Kinesiology and Physical Education 3
EDKP 620	(0)	Seminar in Kinesiology and Physical Education 4
EDPE 676	(3)	Intermediate Statistics

Complementary Courses (15 credits)

Students must take a minimum of 9 credits of coursework in a classroom setting in the area of concentration selected in consultation with the Graduate Student Adviser.

EDKP 542	(3)	Environmental Exercise Physiology

EDKP 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)

EDKP 608	(15)		Special Project

Required Courses

EDKP 617	(0)		Seminar in Kinesiology and Physical Education 1
EDKP 618	(0)	v	Seminar in Kinesiology and Physical Education 2
EDKP 619	(0)		Seminar in Kinesiology and Physical Education 3
			Seminar in Kinesiology and Ph323.159 354.222 TolTj1 0 0 1 165.864 358.502 Tm(354.222 TolTj1 0 0 1 165sTj1 0 0 1

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.

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EDKP 662	(3)	Nerve/Muscle Exercise Response
EDKP 664	(3)	Motor Learning
		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)**
aduate and P	**Associate Dean (Graduate and Postdoctoral Studies)**

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 regarding fellowships, awards, and assistantships in Graduate and Postdoctoral Studies.

6.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Postdoctoral Research* section of this publication contains important details 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

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. Definition and Status

i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A *section 1.2.8*

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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

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 Uni

- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

6.11 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
-

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 e

section 6.12.1.7: Master of Architecture (M.Arc

Note: Your employer's signature is required along with the company business card. We do NOT require the Director's signature.

- Curriculum Vitae
- Applicants are required to upload unofficial transcripts from all universities previously attended (including summer term, exchange term, or study-away term). If you are recommended for admission, you will later be required to supply official transcripts. Transcripts in languages other than English or French must be accompanied by an English or French translation provided by the institution issuing the transcript or by a certified translator. Please refer to *www.mcgill.ca/gradapplicants/apply/ready/submit/upload* and *www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents*.
- A total of two (2) confidential letters of reference are required for your application: two (2) from academics OR one (1) from an academic and one (1) from a recent employer. Once you have identified your referees (you must provide a valid institutional email address for each referee), McGill will send them an email asking for a reference in support of your application (Gmail, Yahoo, etc. domains cannot be accepted). Additionally, uploaded letters must be on university or company/business stationery and the referee must indicate his/her position and full contact information at the institution. Please refer to *www.mcgill.ca/gradapplicants/apply/prepare/checklist/documents*.
- Once accepted to the M.Arch. (Professional) program (Design Studio [DST]), students interested in the Design Studio-Directed Research option will need to provide a two-page (maximum) research statement in early Fall of the first term indicating their general area of interest, their understanding of this area of study, faculty expertise, and research intention in terms of topic and project-based invvideishnd project-based in

- Proof of English language proficiency: Applicants to graduate studies whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. Before acceptance, appropriate exam results must be submitted directly from the *TOEFL* (Test of English as a Foreign Language) or *IELTS* (International English Language T

Professors

Martin Bressani; B.Sc.(Arch.), B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris IV), O.A.Q. (*William C. Macdonald Professor of Architecture*)

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.

Kiel Moe; B.Arch.(Cinc.), M.Arch.(Virg.), M.Des.(Harv.) (*Gerald Sheff Chair in Architecture*)

Alberto Pérez-Gómez; Dipl.Eng.Arch.(IPN), M.A., Ph.D.(Essex), M.R.A.I.C. (*Saidye Rosner Bronfman Professor of Architectural History*)

Associate Professors

David Cov

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 Spaces

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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 602	(3)	Housing Seminar
ARCH 604	(3)	Urban Design Seminar
ARCH 627	(3)	Research Methods for Urban Design and Housing
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

0-3 credits

Up to 3 credits at (at the 500 or 600 level) may be taken outside the School of

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Any course at the 500- or 600- level, with the approval of the School.

6.12.1.8 Master of Architecture (M.Arch.) Post-professional (Non-Thesis) Urban Design and Housing (45 credits)

The Urban Design and Housing program enables students who have already completed their professional M.Arch. degree (or equivalent) to develop specialized skills for contemporary practice in housing, urban design, and the management of human settlements. The twelve-month program comprises three consecutive semesters of coursework. Intensive seminars held during the first two terms focus on contemporary theory and research methods in urban design and housing. Students take ARCH 603 Urban Design and Housing Studio as an applied synthesis of the material discussed in the two core seminars. Nine credits of complementary coursework round out the Fall and Winter terms along with ARCH 623 Project Preparation, in which students develop the strategy for a major independent project (ARCH 632 Urban Design and Housing Research Report) to be completed in the Summer term.

Research Report (15 credits)

ARCH 632	(15)	Urban Design and Housing Research Report

Required Courses (18 credits)

ARCH 551	(3)	Urban Design and Planning
ARCH 602	(3)	Housing Seminar
ARCH 603	(6)	Urban Design and Housing Studio
ARCH 623	(3)	Project Preparation
ARCH 627**182credits)**	(3)	Research Methods for Urban Design and Housing

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 jo 20u2 aTl.cni

6.12.3 Chemical Engineering

6.12.3.1 Location

Department of Chemical Engineering
M.H. Wong Building
3610 University Street
Montreal QC H3A 0C5
Canada
Telephone: 514-398-4494
Fax: 514-398-6678
Email: *gradinfo.chemeng@mcgill.ca*
Website: *www.mcgill.ca/chemeng*

6.12.3.2 About Chemical Engineering

The Department offers programs leading to the **Master of Engineering** and the **Doctor of Philosophy** degrees.

The Department's offices and research laboratories are located in the M.H. Wong Building. Collectively, 18 members of the academic staff conduct research programs in almost all areas of modern chemical engineering, drawing upon theoretical, computational, and experimental methodologies. The Department's faculty have been well supported by government programs (e.g., *NSERC*, *FRQNT*, *CIHR*, *CFI*, and *CRC*) and industry through research partnerships and contracts. Our laboratories are equipped with state-of-the-art equipment, and we attract outstanding graduate students from all over the world. Our main current research areas are briefly described below.

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Advanced materials and polymers – The Department has an internationally recognized research program in structural, functional, and biological materials, spanning synthesis, characterization, processing, and modelling activities, with strong links to academic, government, and industrial research centres. Areas include plasma processing (e.g., nanofluids, carbon nanotubes, advanced coatings) and polymeric or “soft” materials research (e.g., self-assembling or structured materials; complex fluids; liquid crystals; colloids and soft composites; and novel polymerization methods). Applications of the research are targeted toward the development of next-generation, high-density storage media, functional coatings, electronic devices, composite fluids and “smart” materials, to name but a few.

Biomedical engineering and biotechnology – The majority of professors in the Department are involved with biological engineering. This is a very broad research area that includes biotechnology and biomedical engineering. Biotechnology is an integradlmateTrofah ao conmbiing slif stcienes a(e.g., siomhemictry Tj0 Tw1 0

- advanced oxidation processes;
- transport and fate of waterborne contaminants;
- production of alternative fuels;
- environmental nanotechnology for remediation of contaminated soils and waters;
- green chemistry for safer products and processes;
- development of biosensors for pollutant detection.

Plasma science and engineering – Plasma is often called the fourth state of matter, being the result of raising a gas to such an energy level that it contains conducting particles such as electrons and ions. While most of the universe is in a plasma state, plasmas on earth are relatively uncommon. Plasma science and engineering research examines the use of the plasma state to produce physical and chemical changes to matter (bulk and surfaces). Plasmas may be in non-equilibrium, a state in which the overall gas is at lo

Associate Professors

Dimitrios Berk; B.Sc.(Bosphorus), M.E.Sc.(UWO), Ph.D.(Calg.), P.Eng.

Corinne Hoesli; B.Sc., B.A.52 694.12 oruyC1 0 0 1 70.52P

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.

6.12.3.7 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
CIVE 660	(4)	Chemical and Physical Treatment of Waters

Air pollution engineering: (3 credits)

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

Soil and water quality management: (3 credits)

BREE 533	(3)	Water Quality Management
CIVE 686	(4)	Site Remediation

6.12.4 Civil Engineering and Applied Mechanics

6.12.4.1 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
Email: *gradinfo.civil@mcgill.ca*
Website: *www.mcgill.ca/civil*

6.12.4.2 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; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering.

M.Eng. in Civil Engineering

The master's degree can be pursued as a research de

6.12.4.3 Civil Engineering and Applied Mechanics Admission Requirements and Application Procedures

6.12.4.3.1 Admission Requirements

The general rules of Graduate and Postdoctoral Studies apply and are detailed in *University Regulations & Resources* > *Graduate* > *section 1.4: Graduate Admissions and Application Procedures*. The minimum academic standard for admission is a cumulative grade point average (CGPA) of 3.0/4.0 in a recognized program. Alternatively, an equivalent grade point average of no less than 3.2/4.0 over the last two years of the program will be accepted.

Applicants to graduate studies whose mother tongue is not English, and who have **not** completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must write either:

- the *TOEFL* (Test of English as a Foreign Language; preferably the Internet-based test (iBT)); Applicants must achieve an overall minimum score of 94 (iBT; or 587 on the paper-based test (PBT)) with a minimum score of 20 for each component (i.e.,

Professors

Vincent H. Chu; B.Eng.(Taiwan), M.A.Sc.(Tor.), Ph.D.(MIT), Eng.

Subhasis Ghoshal; B.C.E.(Jad.), M.S.(Missouri), Ph.D.(Carn. Mell), P.Eng.

Ghyslaine McClure; B.Ing.(Montr.), S.M.(MIT), Ph.D.(Montr.), Eng.

Mohamed

6.12.4.6 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)

A minimum of five courses at the 500 or 600 level, with at least 8 credits at the 600 level.

6.12.4.7 Master of Engineering (M.Eng.) Civil Engineering (Non-Thesis) (45 credits)

The MEng Non-Thesis program aims to provide a more professional orientation to graduate students. The main features of this degree program are:

A minimum of 15 credits selected from a list of research oriented courses

A maximum of 30 credits with emphasis on expertise (specialty area) for professional practice.

Research Seminar (3 credits)

CIVE 664	(3)	MEng (Non-thesis) Research Seminar

List A: Research Courses

(12-42) credits

A minimum of 12 credits from research courses, from one of the research streams: 1) Infrastructure, 2) Environmental/Hydraulics-Water Resources, and 3) Transportation.

Infrastructure Stream

CIVE 512	(3)	Advanced Civil Engineering Materials
CIVE 602	(4)	Finite Element Analysis
CIVE 603	(4)	Structural Dynamics
CIVE 609	(4)	Risk Engineering
CIVE 623	(4)	Durability of Construction Materials

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

1.9ihfBT/F1 10 1 0 W5s(Analysis49 1 1 0 0 1P52 Tm 1 76.1sour)Tj1 0 0 1 G1 0 Tm((4)TjStudies, McGil

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.

6.12.4.8 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 551	(3)	Environmental Decisions
GEOG 601	(3)	Advanced Environmental Systems Modelling

Environmental policy

URBP 506	(3)	Environmental Policy and Planning

Elective Courses

Also, 0-15 credits of graduate courses from an approved list of courses from the Faculties of Engineering, Agricultural and Environmental Sciences, Law, Management; Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, Religious Studies, Sociology, and McGill School of Environment.

6.12.4.9 Doctor of Philosophy (Ph.D.) Civil Engineering

Thesis

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

Required Courses

CIVE 701	(0)	Ph.D. Comprehensive Examination
CIVE 702	(0)	Ph.D. Research Proposal

Complementary Courses

6-8 credits at the 500 or 600 level taken from the Department of Civil Engineering.

6.12.5 Electrical and Computer Engineering

6.12.5.1 Location

Department of Electrical and Computer Engineering
McConnell Engineering Building, Room 633
3480 University Street
Montreal QC H3A 0E9
Canada
Telephone: 514-398-7344 or 514-398-1406
Email: *grad.ece@mcgill.ca*
Website: *www.mcgill.ca/ece*

6.12.5.2 About Electrical and Computer Engineering

The Department offers programs of graduate studies leading to a degree of **Master of Science** (thesis), **Master of Engineering** (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 *Centracie acie acie bdditye* e5(The laboratories for research in r4b.1208i1 67aaies)0 1 26m

	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	Aug. 1	Oct. 15	Oct. 15
Summer Term:	N/A	N/A	N/A	N/A

All supporting documents must be uploaded to the online application system (*uApply*) by the application deadlines.

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

6.12.5.4 Electrical and Computer Engineering Faculty

Chair

Warren Gross

Associate Chair, Academic

Ioannis Psaromiligkos

Associate Chair, Undergraduate Programs

François Bouffard

Associate Chair, Graduate Programs

Odile Liboiron-Ladouceur

Associate Chair, Operations

Dennis Giannacopoulos

Emeritus Professors

Pierre R. Bélanger; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Maier L. Blostein; B.Eng., M.Eng.(McG.), Ph.D.(Ill.), F.I.E.E.E., Eng.

Francisco D. Galiana; B.Eng.(McG.), S.M., Ph.D.(MIT), F.I.E.E.E., Eng.

Peter Kabal; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

Martin D. Levine; B.Eng., M.Eng.(McG.), Ph.D.(Lond.), F.C.I.A.R., F.I.E.E.E., Eng.

Boon-Teck Ooi; B.E.(Adel.), S.M.(MIT), Ph.D.(McG.), Eng.

Tomas J.F. Pavlasek; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Nicholas C. Rumin; B.Eng., M.Sc., Ph.D.(McG.), Eng.

Jonathan P. Webb; B.A., Ph.D.(Camb.)

Professors

Tal Arbel; M.Eng., Ph.D.(McG.), P.Eng.

Benoit Boulet; B.Sc.(Laval), M.Eng.(McG.), Ph.D.(Tor.) P.Eng. (*Currently on sabbatical*)

Peter E. Caines; B.A.(Oxf.), D.I.C., Ph.D.(Lond.), F.R.S.C., F.I.E.E.E., F.C.I.A.R. (*Distinguished James McGill Professor and Macdonald Professor*) P.Eng.

Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.), P.Eng.

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.), ing.

James Clark; B.Sc., Ph.D.(Br. Col.), 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.

Professors

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 (*Industrial Chair*).

Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.) P.Eng.

Fabrice Labeau; M.S., Ph.D.(Louvain) (*Deputy Provost, Student Life and Learning (SLL)*) P.Eng. (*Industrial Chair*)

Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)

Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F.I.E.E.E. (*CRC Chair*) P. Eng. (*Currently on sabbatical*)

David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F.C.A.E., P.Eng.

David V. Plant; M.S., Ph.D.(Brown), F.I.E.E.E., F.O.S.A., F.E.I.C., F.C.A.E. (*CRC Chair*) P.Eng.

Gordon Roberts; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.), F.I.E.E.E., Eng. (*James McGill Professor*) P.Eng.

Martin Rochette; B.A., M.Eng., Ph.D.(Laval), P.Eng.

Thomas Szkopek; B.A.Sc., M.A.Sc.(Tor.), Ph.D.(Calif.-LA), P.Eng.

Dániel Varró; M.Sc., Ph.D.(BME) (*Currently on sabbatical*)

Zeljko Zilic; B.Eng.(Zagreb), M.Sc., Ph.D.(Tor.), P.Eng.

Associate Professors

Jan Bajcsy; B.Sc.(Harv.), M.Eng., Ph.D.(Princ.)

François Bouffard; B.Eng., Ph.D.(McG.) (*William Dawson Scholar*) P.Eng.

Christophe Dubach; M.Sc.(EPFL), Ph.D.(Edin.) (*Combined appointment with School of Computer Science*)

Mourad El-Gamal; B.Sc.(Cairo), M.Sc.(Nashville), Ph.D.(McG.)

Dennis Giannacopoulos; M.Eng., Ph.D.(McG.)

Roni Khazaka; M.Eng., Ph.D.(Car.)

Associate Members

Maxime Cohen; B.S., M.S.(Technion), Ph.D.(MIT)

Gregory L. Dudek; B.Sc.(Qu.) M.Sc., Ph.D.(Tor.)

Alan C. Evans; Ph.D.(Leeds)

William R. Funnell; M.Eng., Ph.D.(McG.)

David Juncker; Ph.D.(Neuchâtel)

Samira A. Rahimi; B.Eng.(Tabriz) Ph.D. (Laval)

Adjunct Professors

Rhys Allan Adams, Donald Davis, Tiago H. Falk, Vincent Hayward, Mehrsan Javan-Roshtkhari, Innocent Kamwa, Marthe Kassouf, Morgan McGuire, Shane McIntosh, Zetian Mi, Frédéric Nabki, Douglas O'Shaughnessy, Michael Rabbat, Joseph J. Schlesinger, Joshua David Schwartz, Kenneth D. Wagner, Di Wu, Qunbi Zhuge

6.12.5.5 Master of Science (M.Sc.) Electrical Engineering (Thesis) (45 credits)

** This program replaces the M.Eng. Electrical Engineering-Thesis program as of January 1, 2020. **

The Master of Science in Electrical Engineering (Thesis) 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.Sc. Thesis program must be completed on a full-time basis in no more than three years. The following requirements must be met:

Thesis Courses (27 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)

18 credits of 500-, 600-, or 700-level courses, of which no more than 6 credits may be outside the Department.*

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

Aerodynamics and fluid mechanics

Experimental fluid mechanics and aerodynamics, aeroelasticity, and aeroacoustics; theoretical fluid mechanics; turbulence; mixing in turbulent flows; fluid flow control; fluid-structure interactions; computational fluid dynamics, multidisciplinary optimization, and computer flow visualization; heat transfer; combustion, shock wave physics, energetic materials, high-speed reacting flows, hypersonic propulsion, and alternative fuels.

Bioengineering

Biomechanics, biomaterials, blood and respiratory flows, mechanics of soft tissues, cardiovascular devices, image processing for medical diagnostics, voice production.

Combustion and energy systems

Combustion, shock wave physics, heat transfer, and compressible gas dynamics.

Design and manufacturing

Design theory and methodology, design optimization; biomimetics; machine tools and systems, manufacturing processes, and management and control; micro/nano machining; wear and comminution processes.

Dynamics and control

Multibody systems, legged and wheeled vehicles, compliant mechanisms, and kinematic geometry; tethered systems, lighter-than-air craft, and underwater vehicles; spacecraft dynamics and space robotics; modelling and simulation; fluid-structure interactions, nonlinear and chaotic dynamics; dynamics of bladed assemblies.

Materials and structures

Composite materials: structural design, analysis, manufacturing, and processing; micro/nano mechanics; MEMS/NEMS; adaptronic structures; thermomechanics, wave propagation, and computational mechanics.

Vibrations, acoustics, and fluid-structure

Vibrations, acoustics, and fluid-structure interaction.

Programs Offered

The Department offers programs of study leading to the M.Eng., M.Sc., and Ph.D. degrees in Mechanical Engineering. Both M.Eng. (Thesis) and M.Eng. (Non-Thesis) programs are offered.

There are several options for completing master's degrees that do not involve the completion of a thesis. The M.Eng. (Non-Thesis) program has more extensive course requirements and will appeal to students who desire to gain both a broad understanding of subjects within Mechanical Engineering as well as in-depth information in a specific area. Other non-thesis master's degree options are described below.

section 6.12.6.5: Master of Engineering (M.Eng.) Mechanical Engineering (Thesis) (45 credits)

The M.Eng. (Thesis) program requires the completion of technical complementary courses, a seminar course, and a thesis. The thesis involves advanced research supervised by one or more professors who are internationally known in their field. This program prepares students for either an industrial research career or further academic research at the Ph.D. level.

section 6.12.6.6: Master of Engineering (M.Eng.) Mechanical Engineering (Non-Thesis) (45 credits)

Students in this program must complete required courses in addition to several complementary courses and a seminar course. They also complete a project that is less involved than a thesis, and may involve a limited research project or a technical or design study. Graduates of this program are well-prepared for carrying out research and development in industry and may also proceed to further research at the Ph.D. level.

section 6.12.6.7: Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)

The M.Eng. Aerospace degree is offered to students who wish to specialize in the general area of aerospace engineering. This degree is given in conjunction with Concordia University, *Polytechnique Montréal*, [illegible]

section 6.12.6.7: Master of Engineering (M.Eng.) Aerospace Engineering (Non-Thesis) (45 credits)

3. Aerospace Materials and Structures
4. Virtual Environment

section 6.12.6.8: 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 lev

- Personal Statement – one page
- Curriculum Vitae – please include a list of publications, if relevant

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 Mechanical Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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:	Feb. 15	Aug. 1	Oct. 15	Oct. 15
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.

6.12.6.4 Mechanical Engineering Faculty

Chair

Meyer Nahon

Associate Chair (Curriculum Affairs)

Arun Misra

Associate Chair (Undergraduate Affairs)

Mathias Legrand

Associate Chair (Graduate Affairs)

Siva Nadarajah

Director, M.Eng. Aerospace Program

Tim Lee

Emeritus Professors

Abdul M. Ahmed; B.Sc.(Dhaka), Ph.D.(McG.), ing. (*Thomas Workman Emeritus Professor of Mechanical Engineering*)

Jorge Angeles; B.Sc., M.Sc.(UNAM, Mexico), Ph.D.(Stan.), Eng., F.A.S.M.E., F.C.S.M.E., F.C.A.E., F.R.S.C.

Romuald Knystautas; B.Eng., M.Eng., Ph.D.(McG.), ing.

John H.S. Lee; B.Eng.(McG.), M.Sc.(MIT), Ph.D.(McG.)

Dan F. Mateescu; M.Eng.(Bucharest Tech), Ph.D.(Rom. Acad. Sci.), Doctor Honoris Causa(Bucharest Tech), A.F.A.I.A.A., F.C.A.S.I.

Michael P. Païdoussis; B.Eng.(McG.), Ph.D.(Camb.), ing.g44 T1 20 0 1 233.81 2J.1 Tfamb

Course Lecturers

Amar Sabih

6.12.6.5 Master of Engineering (M.Eng.) Mechanical Engineering (Thesis) (45 credits)

Applicants who hold an undergraduate degree in a non-Engineering discipline – typically the Physical Sciences – may apply for the M.Sc. (Thesis) program, which is governed by the same regulations as the M.Eng. (Thesis) program.

Thesis Courses (28 credits)

MECH 691*	(3)	M.Eng. Thesis Literature Review
MECH 692	(4)	M.Eng. Thesis Research Proposal
MECH 693	(3)	M.Eng. Thesis Progress Report 1
MECH 694	(6)	M.Eng. Thesis Progress Report 2
MECH 695	(12)	M.Eng. Thesis

* Note: MECH 691 must be taken in the first term of the student's program.

Required Courses

1 credit:

MECH 609	(1)	Seminar

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level) 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.

6.12.6.6 Master of Engineering (M.Eng.) Mechanical Engineering (Non-Thesis) (45 credits)

Research Project (13 credits)

MECH 603	(9)	M. Eng. Project 1
MECH 604	(3)	M. Eng. Project 2
MECH 609	(1)	Seminar

Note: Industrial liaison is encouraged in these courses taken near the end of the program.

Required Courses (16 credits)

MECH 605	(4)	Applied Mathematics 1
MECH 610	(4)	Fundamentals of Fluid Dynamics
MECH 632	(4)	Advanced Mechanics of Materials
MECH 642	(4)	Advanced Dynamics

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering may be selected by the student, based on interest and the choice of area of concentration. Courses at the graduate level from other faculties may also be taken, with prior approval from the student's project supervisor and the Graduate Program Director. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

6.12.6.7 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.

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

6.12.6.9 Master of Science (M.Sc.) Mechanical Engineering (Thesis) (45 credits)

The M.Sc. in Mechanical Engineering is a research-oriented program that focuses on planning and conducting research as well as organizing and presenting research results, supervised by one or more professors who are experts in the field.

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.

6.12.6.10 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.

- Automotive and Aerospace Materials
- Biomaterials
- Nanomaterials and Nanoelectronic Materials
- Multiscale Modelling of Materials
- Electronic and Solar Cell Materials
- Environmental Engineering

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section 6.12.7.14: Doctor of Philosophy (Ph.D.) Mining Engineering

Please consult the Department for more information about the Ph.D.

section 6.12.7.15: 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.

6.12.7.3 Mining and Materials Engineering Admission Requirements and Application Procedures

6.12.7.3.1 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, Ph

Associate Chair, Materials Engineering

Marta Cerruti

Associate Chair & Graduate Program Director

Mathieu Brochu

Graduate Program Coordinator

Barbara Hanley

Emeritus Professors

James A. Finch; B.Sc.(Birm.), M.Eng., Ph.D.(McG.), Eng., F.C.I.M., F.R.S.C. (*Gerald G. Hatch Emeritus Professor*)

John E. Gruzleski; B.Sc., M.Sc.(Qu.), Ph.D.(Tor.), Eng., F.C.I.M., F.A.S.M. (*Gerald G. Hatch Emeritus Professor*)

John J. Jonas; B.Eng.(McG.), Ph.D.(Cant.), Eng., F.A.S.M., F.R.S.C. (*Henry Birks Emeritus Professor*)

Gordon W. Smith; B.Eng., M.Eng., Ph.D.(McG.), Eng.

Post-Retirement Pr

Frank Mucciardi; B.Eng., M.Eng., Ph.D.(McG.), P.Eng.

Professors

George P. Demopoulos; Dipl.Eng.(Nat. Tech., Athens), M.Sc., Ph.D.(McG.), Eng., F.C.I.M. (*Gerald G. Hatch Professor*)

Roussos Dimitrakopoulos; B.Sc.(Thessaloniki), M.Sc.(Alta.), Ph.D.(École Poly., Montr.) (*Canada Research Chair*)

Raynald Gauvin; B.Ing., Ph.D.(École Poly., Montr.), Eng. (*Henry Birks Professor*)

Roderick I.L. Guthrie; B.Sc., Ph.D.(Imperial Coll.), D.I.C., Eng., A.R.S.M., F.C.I.M., F.R.S.C. (*W ofessor*)

Faramarz (Ferri) P. Hassani; B.Sc., Ph.D.(Nott.) (*George Boyd Webster Professor*)

Hani S. Mitri; B.A.Sc.(Cairo), M.Eng., Ph.D.(McM.), Eng., F.C.I.M.

Stephen Yue; B.Sc., Ph.D.(Leeds), P.Eng. (*James McGill Professor*) (*Lorne Trottier Chair in Aerospace Engineering*)

Associate Professors

Kirk Bevan; B.Eng.(UWO), Ph.D.(Purd.), P.Eng.

Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.), Eng. (*Hatch Faculty Fellow*)

Marta Cerruti; B.Sc., Ph.D., Laurea in Chemistry(Turin), P.Eng. (*Canada Research Chair II*)

Richard Chromik; B.Sc.(Penn. St.), M.Sc., Ph.D.(SUNY, Binghamton), P.Eng. (*Hatch Faculty Fellow*)

MainunloCairolo(Dhaplp)Tj1 0 0 1 2.8j1 0 0 1 2.8j1 FUPM), Eng. (

Adjunct Professors

Behnam Ashrafi; B.Sc.(SUT, Tehran), M.Eng, Ph.D.(McG.)

Salim Brahimi; B.Eng, M.Eng., Ph.D.(McG.)

Alexandros Charitos; Dipl. Eng.(Nat. Tech., Athens), Ph.D.(Stuttgart)

Michel Gamache; B.Eng., M.Sc.A.. Ph.D.(École Poly., Montr.)

Tassos Grammatikopoulos; B.Sc.(Patras), M.Sc.(Acad.), Ph.D.(Qu.)

Xueqiu He; B.Eng.(LNTU), M.Eng., Ph.D.(CUMT)

Ahmad Hemami; B.Sc.(Tehran), M.Sc., Ph.D.(Salf.)

In-Ho Jung; B.Sc., M.Sc.(POSTECH), Ph.D.(École Poly., Montr.)

Luis Javier Montiel Petro; B.Eng(U. Nacional, Colombia), Ph.D.(McG.)

Jan Nesset; B.Eng., M.Eng., Ph.D.(McG.)

Michel Trudeau

Priti Wanjara; B.Eng., Ph.D.(McG.)

Karim Zaghib; Dip., Ph.D.(Grenoble INP)

Senior Faculty Lecturer

Florence Paray; B.Eng.(CSP

MIME 610D2	(1.5)	Master's Foundation Course
MIME 670	(6)	Research Seminar 1

Complementary Courses (9 credits)

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.

6.12.7.8 Master of Science (M.Sc.) Mining Engineering (Thesis) (45 credits)

The M.Sc. in Mining Engineering focuses on both fundamental and applied research. A two- to three-semester independent research project, leading to a thesis, is undertaken in any research area of mining science, engineering or technology, as well as closely related fields.

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.

6.12.7.9 Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis) (45 credits)

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

Complementary Courses (24 credits)

12 credits of MIME courses at the 500 level or higher.

12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Adviser.

6.12.7.10 Master of Engineering (M.Eng.) Materials Engineering (Non-Thesis): Environmental Engineering (45 credits)

This interdepartmental graduate option leads to a Master of Engineering (M.Eng.) Materials Engineering: Non-Thesis-Environmental Engineering. The objective of the option is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. The Environmental Engineering option emphasizes interdisciplinary fundamental knowledge, practical perspectives, and awareness of environmental issues through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University.

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 551	(3)	Environmental Decisions
GEOG 601	(3)	Advanced Environmental Systems Modelling

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

Environmental Policy Course

3 credits from the following:

MIME 776	(6)	Ph.D. Research Seminar

Complementary Courses (6 credits)

6 credits of courses at the 500 leUour

students to select courses or research projects that match their particular interests. Students participate actively in professors' research programs or define their individual research objectives, sometimes with their own research funding from major agencies (e.g., *SSHRC*, *NSERC*).

The core program provides a general education in spatial planning in its functional, environmental, and social dimensions. Formal specializations are available in **Transportation Planning** and **Urban Development & Urban Design**. Further information concerning these concentrations is available at *www.mcgill.ca/urbanplanning/programs*. Students wishing to specialize in urban development and design, as in other subfields of planning, can do so within the core program. In all cases, electives, the summer internship, and the Supervised Research Project allow for individual concentration on a particular topic.

Graduates of the M.U.P. program work as planners, designers, and policy analysts, as researchers, advocates, and mediators, and they do so at various levels of government, in civil-society organizations, and with private consulting firms. Although their area of expertise varies, they devote their efforts in increasing numbers to sustainable development in its environmental, social, and economic dimensions.

section 6.12.8.5: Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis) (66 credits)

The M.U.P. program requires two years of study, including a three-month summer internship in a professional setting. Upon completion of the program, graduates are expected to have acquired basic planning skills, a broad understanding of urban issues, and specialized knowledge in a field of their own choice.

section 6.12.8.6: Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis): Transportation Planning (66 credits)

The Transportation Planning concentration enables students to specialize in this field as part of their course of study for the M.U.P. degree. A number of core courses and electives, the summer internship, and the Supervised Research Project must be devoted to the acquisition of skills (including in quantitative analysis) necessary to work as a transportation planner. Admission into the concentration is based on a competitive selection process at the end of the first year of study in the M.U.P. program.

section 6.12.8.7: Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis): Urban Development and Urban Design (66 credits)

The Urban Development and Urban Design concentration produces graduates who are skilled in analysis and design for development in existing (sub)urban landscapes and urbanizing contexts, whether in North America or elsewhere. A series of courses on urban design, real estate, the politics of development, and urban governance enhance the core curriculum of the professionally-accredited M.U.P. program. Additional courses address innovative approaches to urban development, contemporary urban form, community-based design, globalization and development, and the adaptive redesign of suburban contexts, in addition to enduring topics such as housing, public space, cultural landscapes, and environmental planning. Students seeking to specialize in Urban Development and Urban Design apply at the end of their first year of study; admission into the concentration is based on performance in the first year of study and demonstration of spatial literacy, numeric competency, communication skills, and understanding of complex development processes.

section 6.12.8.8: Doctor of Philosophy (Ph.D.) Urban Planning, Policy and Design

The Ph.D. in Urban Planning, Policy and Design prepares students for advanced research and teaching on the processes that govern the management, development, and evolution of towns and cities. During the first two years, under their supervisor's and advisory committee's guidance, students follow courses, refine their research topic, and explore their area of expertise, leading up to comprehensive and proposal exams. They then proceed to write and submit a thesis based on their own original research.

6.12.8.3 Urban Planning Admission Requirements and Application Procedures

6.12.8.3.1 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* and *www.mcgill.ca/urbanplanning/how-apply* for detailed application procedures.

6.12.8.3.1.1 Additional Requirements

The items and clarifications below are additional requirements set by this department for the **Master of Urban planning(M.U.P) program**:

Applicants are required to upload:

- Personal Statement (one to two pages)
- Curriculum Vitae

- Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English. By the application deadlines, appropriate exam results must be sent electronically directly from the *TOEFL* (Test of English as a Foreign Language) or *IELTS* (International English Language Testing Systems) Office (Note: McGill's Institutional Code is 0935). The minimum requirement for the TOEFL is a score of 100 on the Internet-based test (iBT), with each component score not less than 23. The minimum score for the IELTS test is 7.0, with a score of at least 6.5 for each component.

The items and clarifications below are additional requirements set by this department for the **Doctor of Philosophy (Ph.D.) Urban Planning, Policy and Design**:

Applicants are required to upload:

- a current version of their curriculum vitae
-

Adjunct Professors

Jayne Engle; B.Sc.(Eastern U., Penn.), M.B.A.(Temple), M.U.R.P.(Pitt.), Ph.D.(McG.)

Gorka Espiau; B.S.S., Ph.D.(Basque Country)

Nilson Espino; B.Arch.(USMA, Panama), M.Sc.(Ariz.), Ph.D.(Rice)

Murtaza Haider; B.Sc.(UET Peshawar), M.A.Sc., Ph.D.(Tor.)

Marc-André LeChasseur; LL.B.(Sher.), LL.M.(Montr.)

Mario Polèse; B.A.(CUNY), M.A., Ph.D.(Penn.)

Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

Associate Member

Cameron Charlebois; B.Sc.(Arch.), B.Arch., M.B.A.(McG.)

Instructors

Suzanne Doucet, Mark Elsworthy, Daniel Goodfellow, Julie Lakis, Martin Wexler

6.12.8.5 Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis) (66 credits)

The M.U.P. requires two years of study and research including a three-month summer internship in a professional setting. Upon completion of the program, graduates are expected to have acquired basic planning skills, a broad understanding of urban issues, and specialized knowledge in a field of their own choice.

** Students interested in the Barbados Field Study semester option should contact the department on its availability **

Required Courses (48 credits)

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 622	(6)	Planning Studio 1
URBP 623	(6)	Planning Studio 2
URBP 624	(6)	Planning Studio 3
URBP 628	(6)	Practical Experience
URBP 630	(3)	Supervised Research Project 1
URBP 631	(3)	Supervised Research Project 2
URBP 632	(6)	Supervised Research Project 3
URBP 635	(3)	Planning Law
URBP 640	(1)	Introduction to Planning Statistics
URBP 641	(1)	Reading the Urban Landscape
URBP 642	(1)	Introduction to Planning Data

Complementary Courses (18 credits)

Students are encouraged to complete at least one course in each of the four areas of design, environment, housing, and transportation.

Group A

1-3 credits from the following:

URBP 505	(3)	Geographic Information Systems
URBP 643	(1)	Introduction to Geographic Information Systems

Group B

9-17 credits from the following:

ARCH 515	(3)	Sustainable Design
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 506	(3)	Environmental Policy and Planning
URBP 514	(4)	Community Design Workshop
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

(Analysis)Tj1 0 0 Selected Topics in Planning and Analysis Tm(V)Tj1 0i.1u941 Tm(isual)Tj1 0 hP 541

Group C

0-8 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

Group B

0-6 credits

Students may take up to 6 credits of coursew

URBP 604	(3)	Urban Design Seminar
URBP 620	(4)	Transport Economics
URBP 629	(3)	Planning Theory and Practice in a Globalizing World
URBP 651	(3)	Redesigning Suburban Space
URBP 656	(3)	Urban Innovation and Creativity

Group C (0-5 credits)

0-5 credits from the following or other 500 or 600 level courses (see note below):

ARCH 515	(3)	Sustainable Design
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 607	(3)	Reading Course: Urban Planning
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 625	(2)	Principles and Practice 2
URBP 626	(2)	Principles and Practice 3
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

Students may also take courses at the 500 or 600 level in any academic unit at McGill or at another Montreal university, subject to the approval of the School.

6.12.8.8 Doctor of Philosophy (Ph.D.) Urban Planning, Policy and Design

The Doctor of Philosophy in Urban Planning, Policy and Design aims to prepare students for interdisciplinary research and teaching on the management of urban development as well as for leadership in the design and evaluation of urban policies and plans for cities in North America and the world. The program will focus on five identified areas of urban planning (land use planning and urban design; environmental planning; transportation planning; international development planning; real estate and economic development). Students are expected to spend the first two years of study taking courses, preparing for their comprehensive examination and writing their dissertation proposal. The remaining two (or more) years are spent conducting research and writing a thesis.

Required Courses (9 credits)

Every student must take courses we rai849t Tm(es (29.0 up29.0w)T615.141 (up29.036 615.141 Trchd teachine9.0896.28s ban . Tj8.52or.7229.0mee.421 T1 0ific needs(

of their committee, students may elect to take a larger number of courses than is required, but in no case will the number of credits exceed thirty unless the student enters the program in Ph.D.1.

URBP 612	(3)	History and Theory of Planning
URBP 701	(0)	Doctoral Comprehensive Examination
URBP 703	(3)	Doctoral Research Seminar 1
URBP 704	(3)	Doctoral Research Seminar 2
URBP 709	(0)	Doctoral Research Proposal

Complementary Courses (6 credits)

3 credits in advanced research methods at the 600 level or higher. It may be taken in any academic unit at McGill or another university, subject to the approval of the Graduate Program or School Director.

3 credits in advanced theory at the 600 level or higher. It may be taken at McGill or at another univ

7.2.2 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.

7.8 Postdoctoral Research

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Postdoctoral Research* section

vi. Postdoctoral Fellows and Scholars are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged.

vii. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

viii. 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.

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

x. 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.

xi. Access to student services is granted to non-unionized postdocs, who are charged the Student Services fee in the Fall and Winter terms, through their student fee accounts.

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 sd hosticL2575 568.54 c cha is gr2nts/srr

7.8.4 Leave of Absence for Health and Parental/Familial Reasons

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- Ph.D. Comprehensives Policy
-

McGill School of Environment
Rowles House
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7559

Coordinator – C. Zhu
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 environmental issues requires a dialogue between pure and applied sciences, the social sciences, and the humanities. The degradation of the biological and biophysical environment has roots in the structure of human societies while solutions to environmental problems have an impact on human livelihoods.

A number of academic departments and institutes at McGill promote graduate-level research and training on environmental topics and have faculty members whose main research interest falls in this domain. As such, environmental research is widespread throughout the McGill community. The Environment option provides a v

section 3.12.9: Geography

section 3.12.9.7: Master of Arts (M.A.) Geography (Thesis): Environment (45 credits) (***Science*** *> Graduate > Browse Academic Units & Programs > Geography*)

section 15.12.6.6: Master of Science (M.Sc.) Geography (Thesis): Environment (45 credits) (***Science*** *> Graduate > Browse Academic Units & Programs > Geography*)

section 15.12.6.9: Doctor of Philosophy (Ph.D.) Geography: Environment (***Arts*** *> Graduate > Browse Academic Units & Programs > Geography*)

section 9.12.1: Law

section 9.12.1.7: Master of Laws (LL.M.) Law (Thesis): Environment (45 credits) (***Law*** *> Graduate > Browse Academic Units & Programs > Law*)

section 9.12.1.9: Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits) (***Law*** *> Graduate > Browse Academic Units & Programs > Law*)

section 11.12.11: Medicine, Experimental

section 11.12.11.7: Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits) (***Medicine*** *> Graduate > Browse Academic Units & Programs > Medicine, Experimental*)

section 11.12.11.9: Doctor of Philosophy (Ph.D.) Experimental Medicine: Environment (***Medicine*** *> Graduate > Browse Academic Units & Programs > Medicine, Experimental*)

section 3.12.18: Philosophy

section 3.12.18.7: Doctor of Philosophy (Ph.D.) Philosophy: Environment (***Arts*** *> Graduate > Browse Academic Units & Programs > Philosophy*)

section 2.12.9: Plant Science

: Master of Science (M.Sc.) Plant Science (Thesis): Envir

Professors

Elena Bennett; B.A.(Oberlin), M.Sc., Ph.D.(Wisc.) (*joint appt. with Natural Resource Sciences*W

Associate Members

History and Classical Studies: Daviken Studnicki-Gizbert

Human Nutrition, School of: Niladri Basu

Integrated Studies in Education: Blane Harvey

Languages, Literatures, and Cultures: Stephanie Posthumus

Law, Faculty of: Richard Gold, Richard Janda, Sebastien Jodoin

Management, Desautels Faculty of: Dror Etzion

Natural Resource Sciences: Christopher Buddle, Benoît Côté, Brian Driscoll, Gordon Hickey, Cynthia Kallenbach, Ian Strachan, Paul Thomassin, Joann Whalen

Parasitology, Institute of: Marilyn Scott

Pathology: Bruce Case

Plant Science: Caroline Begg, Pierre Dutilleul, Jaswinder Singh, Don Smith

Redpath Museum: David M. Green

Urban Planning, School of: Nik Luka

Adjunct Professor

Katia Opalka; B.A., B.C.L./LL.B.(McG.)

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-planning and professional development, and your well-being and student life. I invite you to consult the website *Resources for Your Success*, which is a one-stop-shop for the many resources and support systems in place for you across the University.

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

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

8.2 Graduate and Postdoctoral Studies

8.2.1 Administrative Officers

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)**

8.2.2 Location

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

Note: For inquiries reg

vi. Postdoctoral Fellows and Scholars are mandatory members of the Post-Graduate Students' Society (PGSS) and an annual association fee is automatically charged.

vii. Postdocs are permitted membership in the Faculty Club; an annual fee will be charged for this membership.

viii. 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.

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

x. 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.

xi. Access to student services is granted to non-unionized postdocs, who are charged the Student Services fee in the Fall and Winter terms, through their student fee accounts.

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*.

8.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

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

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

8.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of 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 e

- Ph.D. Comprehensives Policy
- Graduate Studies Reread Policy
- Failure Policy
- Guideline on Hours of Work

8.10 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

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* 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

8.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2020–2021 session as listed. The Faculty/School reserves the right to introduce changes as may be deemed necessary or desirable at an

8.12.1.2 About Biological and Biomedical Engineering

Biological and Biomedical Engineering (BBME) is an interfaculty graduate program administered jointly by the Departments of Bioengineering (Faculty of Engineering) and Biomedical Engineering (Faculty of Medicine) at McGill. Through its interdisciplinary nature, the program is devised to accommodate extensive research areas and training with over 60 world-renowned scientists, as well as to equip students for promising careers in industry, healthcare, academia, and government. 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, graduates 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

Ongoing biological and biomedical engineering research at McGill includes:

- artificial cells and organs
- bioinformatics, computational biology, and biocomputation
- biological materials and mechanics
- biomedical imaging and microscopy
- biomedical modelling
- biomedical sensors, diagnostics, and therapeutics
- biomedical signals and systems
- biomolecular and cellular engineering
- bioprocess engineering
- micro- and nano-bioenginering
- systems and synthetic biology

section 8.12.1.5: Master of Engineering (M.Eng.) Biological and Biomedical Engineering (Thesis) (45 credits)

The **Biological and Biomedical Engineering Master's program** focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Eng.) that span broad themes, including: biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, orthopedics, biological materials and mechanobiology, motor proteins and the cytoskeleton, biosensors and biological therapeutics, biological networks, and computational biology. BBME's internationally-renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry. Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals, and government and provide a solid basis for Ph.D. studies. Candidates should hold a Bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic biology (physiology, cell biology, or molecular biology).

For more information please consult *www.mcgill.ca/bbme/prospective-students/masters-program*.

section 8.12.1.6: Doctor of Philosophy (Ph.D.) Biological and Biomedical Engineering

The **Biological and Biomedical Engineering doctoral program** provides students with advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus on an area of choice while integrating quantitative concepts and engineering tools for the study of natural and life sciences and/or for patient care. As part of the Ph.D. requirement, students will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for their future career. Under the guidance of their supervisor, students will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. Through independent research and thesis writing, the program will prepare students for careers in academia, industry, hospitals, and government. Students who complete the program will obtain a doctor of philosophy in Biological and Biomedical Engineering. The best preparation for this program is a master's degree in BBME or a related discipline.

For more information please consult *www.mcgill.ca/bbme/prospective-students/doctoral-program*.

8.12.1.3 Biological and Biomedical Engineering Admission Requirements and Application Procedures

8.12.1.3.1 Admission Requirements

For up-to-date admission requirements, please consult *www.mcgill.ca/bbme/prospective-students/how-apply* and *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.2: Admission Requirements (Minimum Requirements to be Considered for Admission)*.

8.12.1.3.2 Application Procedures

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

See *University Regulations & Resources* > *Gr*

6 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.

Doctor of Philosophy (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. All incoming students are required to take the workshops on Responsible Conduct of Research. These will be included as part of the milestones for annual progress reports.

section 8.12.2.5: Master of Science (M.Sc.) Neuroscience (Thesis) (45 credits)

The M.Sc. program offers opportunities to a great diversity of individual interests and backgrounds, and prepares our students for scientific careers in neuroscience and related fields. Programs leading to an M.Sc. degree require the completion of intensive academic and research training.

section 8.12.2.6: Doctor of Philosophy (Ph.D.) Neuroscience

The IPN offers a highly competitive Ph.D. program that prepares students for successful scientific careers in the field of neuroscience. Over half of the students registered in the neuroscience graduate program at McGill University are in the doctoral stream.

8.12.2.3 Neuroscience (Integrated Program) Admission Requirements and Application Procedures

8.12.2.3.1 Admission Requirements

General

Applicants must hold a bachelor's degree, or its equivalent, from a recognized institution in a field related to the subject selected for graduate work, and must display an adequate background in basic sciences.

The applicant must present evidence of high academic achieve[illegible]s.

- Curriculum Vitae
- Personal Statement
- Letters of Recommendation (2)

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 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

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

8.12.2.4 Neuroscience (Integrated Program) Faculty

Director

J. Rochford

Associate Director

E. Ruthazer

Emeritus Professors

A. Aguayo; M.D.(Cordoba Nat.) F.R.C.P.(C) (*Dept. of Neurology and Neurosurgery*)

E. Andermann; M.D.,C.M., M.Sc., Ph.D.(McG.), F.C.C.M.G. (*Dept. of Neurology and Neurosurgery*)

S. Carbonetto; M.Sc.(Mass.), Ph.D.(N. Carolina) (*Dept. of Neurology and Neurosurgery*)

F. Cervero; M.D., Ph.D.(Madrid), D.Sc.(Edin.) (*Dept. of Anesthesia*)

B. Collier; Ph.D. (*Dept. of Pharmacology*)

R. Del Maestro; Ph.D.(Uppsala) (*Dept. of Neurology and Neurosurgery*)

M. Diksic; Ph.D. (*Dept. of Neurology and Neur*

Professors

M. Avoli; M.D.(Rome), Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

S. Baillet; Ph.D.(Paris XI) (*Dept. of Neurology and Neurosurgery*)

C. Baker; Ph.D.(Calif.-San Diego) (*Dept. of Ophthalmology*)

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*)

D. Bernard; Ph.D. (Johns Hop.) (*Dept. of Pharmacology*)

A. Bernasconi; M.D.(Basel) (*Dept. of Neurology and Neurosurgery*)

V. Bohbot; Ph.D.(Ariz.) (

Associate Professors

R. Gruber; Ph.D.(Tel Aviv) (*Dept. of Psychiatry*)

P. Haghighi; Ph.D.(McG.) (*Dept. of Physiology*)

M. Kaminska; M.D., M.Sc. (*Dept. of Experimental Medicine*)

A. Kania; Ph.D.(Baylor) (*Depts. of Biology, Anatomy and Cell Biology, and Experimental Medicine*)

D. Klein; B.A., Ph.D.(Witw./S. Af.) (*Dept. of Neurology and Neurosurgery*)

M. Kokoeva; Ph.D.(Russian Acad. Of Sci.) (*Dept. of Medicine*)

N. Ladbon-Bernasconi; M.D.(Lausanne), Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

A. Lamontagne; Ph.D.(Laval) (*School of Physical and Occupational Therapy*)

N. Mechawar; Ph.D.(Montr.) (*Dept. of Psychiatry*)

J. Mendola; Ph.D.(MIT) (*Dept. of Ophthalmology*)

G. Mitsis; Dipl.(Nat. T

Assistant Professors

S. Narayanan; B.Sc.(C'dia), M.Sc., Ph.D.(McG.) (*Dept. of Neurology and Neurosurgery*)

J. Near; B.Sc.(Qu.), Ph.D.(Western) (*Dept. of Psychiatry*)

T. Nguyen; M.D., M.Sc.(McG.), F.R.C.P.(C) (*Dept. of Psychiatry*)

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*

NEUR 699	(12)	Master's Thesis Submission
NEUR 705	(0)	Responsible Research Conduct

Complementar

8.12.3.3 Quantitative Life Sciences Admission Requirements and Application Procedures

8.12.3.3.1 Admission Requirements

General

Applicants are expected to hold an undergraduate degree in one of the following areas (or equivalent): biology

Professors

A. Evans (*Dept. of Neurology and Neurosurgery*)

G. Fussman (*Dept. of Biology*)

K. Gehring (*Dept. of Biochemistry*)

L. Glass (*Dept. of Physiology*)

C. Greenwood (*Dept. of Epidemiology, Biostatistics and Occupational Health*)

P Grutter (*Dept. of Physics*)

F Guichard (*Dept. of Guichard*)

H. Hwang (*Dept. of Psychology*)

D. Juncker (*Dept. of Biomedical Engineering*)

M. Lathrop (*Dept. of Human Genetics*)

L. Levin (*Depts. of Opthalmology, Neurology and Neurosurgery*)

K. Murai (*Dept. of Neurology and Neurosurgery*)

E. Ruthazer (*Dept. of Neurology and Neurosurgery*)

D. Schoen (*Dept. of Biology*)

D. Stephens (*Dept. of Mathematics and Statistics*)

P. Wiseman (*Depts. of Chemistry, Physics*)

Y. Xia (*Dept. of Bioengineering*)

Associate Professors

L. Addario-Berry (*Mathematics and Statistics*)

A. Benedetti (*Depts. of Medicine, Epidemiology, Biostatistics and Occupational Health*)

M. Blanchette (*Dept. of Computer Science*)

G. Bourque, (*Dept. of Human Genetics*)

G. Brouhard (*Dept. of Biology*)

C. Brown(*Depts. of Physiology, Anatomy and Cell Biology*)

G. Bub (*Dept. of Physiology*)

M. Chacron (*Dept. of Physiology*)

E. Cook (*Dept. of Physiology*)

K. Dewar (*Dept. of Human Genetics*)

P. Francois (*Dept. of Physics*)

P. Harrison (*Dept. of Biology*)

R. Hernandez (*Dept. of Human Genetics*)

T. Humphries (*Depts. of Physiology, Mathematics and Statistics*)

A. Khadra (*Dept. of Physiology*)

S. Komarova (*Faculty of Dentistry*)

B. Leung (*Dept. of Biology, School of Environment*)

J. Majewski (*Dept. of Human Genetics*)

N. Moitessier (*Dept. of Chemistry*)

E. Moodie (*Dept. of Epidemiology, Biostatistics and Occupational Health*)

R. Nadon (*Dept. of Human Genetics*)

C. Pack (*Dept. of Neurology and Neurosurgery*)

T. Pastinen (*Dept. of Human Genetics*)

Associate Professors

J. Pineau (*Dept. of Computer Science*)

J.B. Poline (*Dept. of Neurology and Neurosurgery*)

B. Richards (*Dept. of Biology*)

A. Schmidt (*Dept. of Epidemiology, Biostatistics and Occupational Health*)

R. Sladek (*Depts. of Experimental Medicine, Human Genetics*)

J. Vogel (*Dept. of Biology*)

J. Waldispühl (*Dept. of Computer Science*)

Assistant Professors

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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)	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
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 594	(3)	Advanced Evolutionary Ecology
ENVR 540*	(3)	Ecology of Species Invasions
QLSC 611	(3)	Directed Readings

* Students either choose BIOL 540 or ENVR 540 but not both.

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

- Admission Requirements
- Application Procedures
- Competency in English

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

9.7 Fellowships, Awards, and Assistantships

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

9.8 Postdoctoral Research

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

9.8.1 Postdocs

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

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

9.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. Fv

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 or the collective agreement. This applies to all postdocs, including those whose funding does not come from the Canadian research councils.

4. **Privileges**

i. Postdocs hav

- 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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

9.8.3 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 fello

- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

9.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

9.10 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

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 2020–2021 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

section 9.12.1.7: Master of Laws (LL.M.) Law (Thesis): Environment (45 credits)

The graduate option in Environment is a cross-disciplinary option offered in conjunction with the McGill School of Environment within the LL.M. (thesis or non-thesis), providing students with an appreciation for the role of science, politics, and ethics in informed decision-making in the environment sector. The thesis option requires the production of a 30,000-word thesis.

Note: Availability of this program is subject to relevant courses being offered in a given year.

section 9.12.1.8: Master of Laws (LL.M.) Law (Non-Thesis) (45 credits)

The LL.M. Non-Thesis program is geared toward students who wish to continue their legal education largely through graduate-level coursework. The program requires two terms of coursework as well as a 15,000-word research project.

section 9.12.1.11: Master of Laws (LL.M.) Law (Non-Thesis): Air and Space Law (45 credits)

The LL.M. non-thesis program in Air and Space Law is geared toward students who wish to gain a wide exposure to a range of taught courses within, and related to, the Air and Space Law domain. The non-thesis option requires a 15,000-word research project, with the remaining credits earned in courses.

section 9.12.1.13: Master of Laws (LL.M.) Law (Non-Thesis): Comparative Law (45 credits)

In the field of Comparative Law, students are encouraged to think about the nature and value of comparative scholarship both through coursework (particularly the Legal Traditions course, which is required for all students in Comparative Law) and through their master's research project. As such, students are encouraged and given opportunities to explore how juridical analyses are enriched through openness to learning from diversity in research methods, theoretical frameworks, legal traditions and doctrines, languages, and disciplinary perspectives. The LL.M. non-thesis program requires two terms of graduate-level coursework and another term to produce a 15,000-word research project.

Note: Availability of this program is subject to relevant courses being offered in a given year.

The graduate option in En vironment is a cross-disciplinary option offered in conjunction with the McGill School of Environment within the LL.M. (thesid

Application Pr

Courses offered within this concentration may include:

Comparative Modern Legal History (CMPL 519)

Feminist Legal Theory (CMPL 504)

Human Rights & Cultural Diversity (CMPL 603)

Jurisprudence (CMPL 501)

Legal Education Seminar (LAWG 625)

Legal Theory (CMPL 506)

Legal Traditions (CMPL 600)

Linguistic and Literary Approaches to Law (CMPL 507)

Restitution (PRV4 500)

Roman Law (CMPL 510)

Sentencing in Canadian Law (PUB2 504)

Social Diversity and Law (CMPL 511)

Talmudic Law (CMPL 513)

Theoretical Approaches to Law (CMPL 641)

9.12.1.4.2 International Business Law

This field has practical significance in international business relations and also provides opportunities to apply experience derived from multiple legal systems to the development of multi-jurisdictional, “international” commercial rules.

Courses offered within this concentration may include:

Airline Business and Law (ASPL 614)

Comparative Air Law (ASPL 632)

Comparative Legal Institutions (CMPL 517)

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9.12.1.4.3 Human Rights and Cultural Diversity

Building on the Faculty's strength in public law, this concentration promotes the comparative study of human rights law. It provides students with opportunities to reflect critically on the emergence and institutionalization arati

complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Students following the Bioethics option come from the F

CMPL 615	(6)	Master's Thesis 4
CMPL 616	(12)	Master's Thesis 5

Required Courses (9 credits)

CMPL 610	(3)	Legal Research Methodology
ENVR 615	(3)	Interdisciplinary Approach Environment and Sustainability
LAWG 601	(1.5)	Communication 1
LAWG 602	(1.5)	Communication 2

Complementary Courses (9 credits)

3-6 credits chosen from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits chosen from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

CMPL 656	(2)	Research Project 2
CMPL 657	(1)	Research Project 3

9.12.1.9 Master of Laws (LL.M.) Law (Non-Thesis): Environment (45 credits)

The 45-credit, LL.M. program, non-thesis option, in Environment is of

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually dev

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of thesis courses by completing one or both of:

CMPL 618	(2)	Master's Thesis 7
CMPL 619	(1)	Master's Thesis 8

9.12.1.13 Master of Laws (LL.M.) Law (Non-Thesis): Comparative Law (45 credits)

** Availability of this program is subject to relevant courses being offered in a given year. **

The 45-credit LL.M. program, non-thesis option, in Comparative Law complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms. The third term is devoted to the Research Project, usually taken in the summer of the first year, meaning that students usually complete their program within one calendar year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term pti0d4o0Tw/F1 8.1 Teing of

CMPL 641	(3)	Theoretical Approaches to Law
LAWG 702	(2)	Legal Research Methodology for DCL
LAWG 703	(0)	Literature Review, Analysis and Proposal
LAWG 704	(0)	DCL Research Seminar 1
LAWG 705	(0)	DCL Research Seminar 2

Complementary Course (0-3 Credits)

Some students are encouraged to take the following:

LAWG 601	(1.5)	Communication 1
LAWG 602	(1.5)	Communication 2

Doctor of Civil Law (D

Required Courses (5 Credits)

CMPL 641	(3)	Theoretical Approaches to Law
LAWG 702	(2)	Legal Research Methodology for DCL Literature Review, Analysis and Proposal

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 dev

- Doctoral Degrees
- Coursework for Graduate Programs, Diplomas, and Certificates

10.6 Graduate Admissions and Application Procedures

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

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

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

10.7 Fellowships, Awards, and Assistantships

Please refer to *University Regulations & Resources* > *Graduate* > *section 1.5: Fellowships, Awards, and Assistantships* for information and contac1 0 0 1 224.969 65a

3. Appointment, Funding, Letter of Agreement

i. Postdoctoral appointments may not exceed the registration eligibility period as defined above.

ii. In order to be registered, the postdoc must be assured of financial support other than from personal means during their stay at McGill University.

- to inform themselves of and adhere to the University's policies and/or regulations for postdocs as outlined at *www.mcgill.ca/gps/postdocs*, *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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

10.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

10.8.4 Leave of Absence for Health and Parental/Familial Reasons

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

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

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

10.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of 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:

- Office of Sponsored Research
- Postdocs
- Research Associates

10.12 Desautels Faculty of Management

10.12.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West
Montreal QC H3A 1G5
Canada
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 hav

10.13 M.B.A. Program

About the Master of Business Administration (M.B.A.)

Students studying on a full-time basis typically complete this 57-credit program in two years and must complete it within three years; part-time students typically complete this program in three years and must complete it within five years.

The first semester of the program features an integrated set of core courses with an emphasis on experiential learning. The remaining three semesters allow the student to specialize in a particular concentration and participate in an international exchange or complete an internship or a practicum, supervised by faculty.

While the standard components of an M.B.A. curriculum (finance, organizational behaviour, strategy, marketing, operations) remain central to this M.B.A. program, they are combined in ways that expose students to the cross-functional realities of managing in, across, and among organizations.

Master of Business Administration (M.B.A.); Management (Non-Thesis)

section 10.13.7: Master of Business Administration (M.B.A.) Management (Non-Thesis) (54 credits)

section 10.13.8: Master of Business Administration (M.B.A.) Management (Non-Thesis): General Management (48 credits)

10.13.2.1 Additional Requirements

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

- A completed Personal Background Sheet

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

Elective Courses (24 credits)

24 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty.

10.13.9 M.B.A./Japan Admission Requirements and Application Procedures

About the M.B.A./Japan

The McGill MBA Japan program is a weekend MBA program based on the world-leading Integrative MBA program offered by McGill University's Desautels Faculty of Management in Montreal. Students will follow a lockstep program. MBA Japan classes take place at the Learning Edge Nishi-shinjuku Campus on the 4th floor of Nomura Fudosan Nishi-shinjuku building.

Master of Business Administration (M.B.A.); M.B.A./Japan (Non-Thesis) (57 credits)

section 10.13.9.4

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

10.13.9.6 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): General Management (57 credits)

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources
MGCR 652	(4)	Value Creation
MGCR 653	(4)	Markets and Globalization
MGCR 660	(6)	International Study Trip

Concentration Courses (36 credits)

Five courses (15 credits) chosen in consultation with a supervisor, from the required or complementary courses in any of the Finance, Global Strategy and Leadership, Marketing, or Technology and Innovation Management concentrations.

The remaining 21 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

BUSA 650	(6)	Internship
BUSA 651	(6)	Practicum

10.13.9.7 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis): Global Strategy and Leadership (57 credits)

This program is currently not offered.

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan,inessj1 0 0 1 291.137 671 Uni

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
	(3)	Managerial Negotiations

MRKT 659	(3)	Advanced Business Marketing
MRKT 690	(3)	Advanced Topics in Marketing 1
MRKT 698	(3)	International Marketing Management

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

BUSA 650	(6)	Internship
BUSA 651	(6)	Practicum

10.13.9.9 Master of Business Administration (M.B.A.)/Japan Management (Non-Thesis):Technology and Innovation Management (57 credits)

This program is currently not offered.

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading prof1 cNj1 0 hMBwS1 67.52 478w

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 F

HEC Montréal courses (12 credits)

MHEC 600	(4)	Création de valeur
MHEC 601	(4)	Excellence opérationnelle
MHEC 602	(4)	Outils et pratiques de gestion

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*.
- MGMSCM China: For more information, please refer to *www.mcgill.ca/desautels/programs/gmscm/admissions*.
- IMPM: For more information, please refer to *www.impm.org*.
- IMHL: For more information, please refer to *www.mcgill.ca/desautels/programs/imhl/applying*.

10.14.2 Application Dates and Deadlines

- Analytics: For more information, please refer to *www.mcgill.ca/desautels/programs/mma/admissions*.
- Finance: For more information, please refer to *www.mcgill.ca/desautels/programs/mmf/admissions*.
- MGMSCM China: For more information, please refer to *www.mcgill.ca/desautels/programs/gmscm/admissions*.
- IMPM: For more information, please refer to *www.impm.org/admissions*.
- IMHL: For more information, please refer to *www.mcgill.ca/desautels/programs/imhl/applying*.

10.14.3 Master of Management (M.M.) Analytics (Non-Thesis) (45 credits)

Revision, June 2020. Start of revision.

The core module is designed to teach the fundamentals of data and decision analytics, team management, and leadership. The complementary course module is designed to expose students to a v

ACCT 696	(1.5)	Advanced Topics in Accounting Analytics
BUSA 611	(1.5)	Independent Studies in Analytics 1
BUSA 613	(3)	Independent Studies in Analytics 2
FINE 675	(1.5)	Financial Valuation Analytics for Startups
FINE 695	(1.5)	Advanced Topics in Finance Analytics 1
FINE 696	(1.5)	Advanced Topics in Finance Analytics 2
INSY 669	(1.5)	Text Analytics

FINE 689N1	(6)	Integrative Finance Project
FINE 689N2	(6)	Integrative Finance Project

Complementary Courses (12 credits)

12 credits from:

ACCT 605	(3)	Financial Statements 2
FINE 683	(3)	Advanced Corporate Finance
FINE 684	(3)	Fixed Income Analysis
FINE 685	(3)	Market Risk Management
FINE 686	(3)	Global Corporate Finance
FINE 687	(3)	Global Investments
FINE 688	(3)	Mergers and Acquisitions

or any other relevant 500-700 level course offered in the University with permission of the Program Adviser.

10.14.5 Master of Management (M.M.) Manufacturing Management (Non-Thesis) (56 credits)

This program is currently not offered.

We are in the process of revising the curriculum of the program to enhance its quality and relevance, while keeping the focus still on designing and managing global supply chains for manufacturing and service organizations.

Required Courses (30 credits)

MECH 524	(3)	Computer Integrated Manufacturing
MECH 627	(9)	Manufacturing Industrial Stage
MECH 628	(2)	Manufacturing Case Studies
MECH 629	(1)	Manufacturing Industrial Seminar
	(3)	Strategic Management of Operations

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.) IMHL (Non-Thesis) (45 credits)

The M.M. in International Master's for Health Leadership; Non-Thesis program is designed for clinicians and managers in the context of health care to help develop management skills for emerging health care leaders. This is a 15-month program made up five 12-day modules, followed by a Master's paper.

Required Courses (45 credits)

BUSA 663	(6)	Reflective Mindset
BUSA 667	(6)	Analytic Mindset
BUSA 671	(3)	Managerial Experience
BUSA 676	(6)	Worldly Mindset
BUSA 677	(6)	Collaborative Mindset
BUSA 678	(6)	Catalytic Mindset
BUSA 694	(12)	Final Master's Paper

10.14.7 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

10.14.8 Master of Management (M.M.) Retailing (Non-Thesis) (45 credits)

The Master of Management in Retailing; Non-Thesis, is focused on the customer journey and explores how retail disruptors can lead to retail innovations that can significantly improve operational efficiencies, competitiveness and impact customer satisfaction to provide a foundation for a better society. International in scope, the program will focus on how retailers must adapt to the rapidly changing and increasingly complex global business environment to thrive. It aims to integrate diverse disciplines and experiential learning opportunities, including an optional internship, research opportunities with the state-of-the-art Retail Lab in addition to an international trip and Global Retail Challenge.

Required Courses (21 credits)

	(3)	Foundations of Retailing

- 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* > *Gr*

Post-M.B.A.

15 credits of M.B.A./Japan courses.

10.17 Graduate Certificate in Professional Accounting (GCPA) Admission Requirements and Application Procedures

About the Graduate Certificate in Professional Accounting (GCPA)

section 10.17.5: Graduate Certificate (Gr. Cert.) Professional Accounting (24 credits)

The McGill GCPA program at Desautels is an accredited Professional Education Program (PEP) of CPA Quebec. The program is designed to provide students with professional training on the latest CPA concepts and practice-related issues while preparing them to write the national Common Final Examination (CFE). Completion of a PEP and passing the CFE are two of the required components for obtaining the highly respected CPA designation. Combining McGill's international reputation and top professors, McGill's GCPA program ensures that graduates can make professional judgment using financial information in a global business environment.

The GCPA program is intended to allow students to develop professional skills that will be recognized nationally and internationally. The program focuses on the acquisition and integration of in-depth specialized knowledge in fields in which engagements are likely to be entrusted to CPAs. More specifically, the objective of the Graduate Certificate is to develop the technical and enabling skills outlined by CPA Canada and needed for the exercise of professional judgment necessary to solve practical problems related to the practice of professional accounting. Our lecturers are hard-working, dedicated, and motivated to ensure our students succeed in the program.

The GCPA program, coupled with a 24-month recognized training period, provides students with the academic and professional business training, communication and interpersonal skills needed to succeed in a CPA career.

10.17.1 Admission Requirements

Entry to the GCPA program requires a minimum cumulative grade point average (CGPA) of 3.0 on a 4.0 scale. Admission to the program is highly competitive and meeting the minimum requirements does not secure entry into the GCPA program.

Option 1:

Applicants who complete a Canadian Bachelor of Commerce program must complete the following courses, or their equivalents, with minimum grades of B-:

ACCT 351 Intermediate Financial Accounting 1
ACCT 352 Intermediate Financial Accounting 2
ACCT 361 Management Accounting
ACCT 362 Cost Accounting
ACCT 385 Principles of Taxation
ACCT 453 Advanced Financial Accounting
ACCT 463 Management Control
ACCT 475 Principles of Auditing
ACCT 486 Business Taxation 2
BUSA 364 Business Law 1
FINE 342 Corporate Finance

Applicants must also meet the requirements outlined by *L'Ordre des comptables professionnels agréés du Québec* (OCPAQ) for the university where they obtained their undergraduate degree. Applicants who obtained their undergraduate degree in a different province must also verify the requirements outlined by the CPA Order of that province.

Option 2:

Graduates of programs other than a Canadian Bachelor of Commerce, or graduates with foreign degrees must complete the *: Diploma (Dip.) Accounting (30 credits)* at the *School of Continuing Studies* and complete additional courses as necessary to satisfy the following 14 prerequisite courses, with minimum grades of B-.

CCFC 511 Financial Accounting 1
CCFC 512 Financial Accounting 2
CCFC 513 Financial Accounting 3
CCMA 511 Managerial Accounting 1
CCMA 522 Managerial Accounting 2
CCMA 523 Managerial Accounting 3
CCAU 511 Auditing 1
CCTX 511 Taxation 1
CCTX 532 Taxation 2
CFIN 512 Corporate Finance

CCLW 511 Law 1
CFIN 522 Applied Topics: Corporate Finance
CMIS 541 Information Systems for Managers
CPL2 552 Strategic Management

For more information, you may contact the School of Continuing Studies directly:

688 Sherbrooke Street West, 11th floor
Telephone: 514-398-6200
Email: *info.conted@mcgill.ca*
Website: *www.mcgill.ca/continuingstudies*

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), while application deadlines are set by the Desautels Faculty of Management and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/gr*

Montréal QC H3B 2G2
Canada

Telephone: 514-288-3256 or 1-800-363-4688 (toll free)
Email: *info@cpaquebec.ca*
Web: *cpaquebec.ca*

10.17.5 Graduate Certificate (Gr. Cert.) Professional Accounting (24 credits)

The Graduate Certificate in Professional Accounting is a recognized professional education program (PEP) des Ordre des Comptables Professionnels Agréés du Québec (OCPAQ). The program prepares students for a career as a professional accountant and to write the national CPA Common Final Exams. It allows students to develop professional skills that will be recognized nationally and internationally. Students are exposed to the latest concepts and practice related issues and have the choice of studying in the areas of public accounting (assurance), performance measurement, taxation, or financial business analysis.

Prerequisite Courses for Canadian B.Com. Students (33 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2
BUSA 364	(3)	Business Law 1
FINE 342	(3)	Corporate Finance

Prerequisite Courses for Diploma in Accounting Students (42 credits)

CCAU 511	(3)	Auditing 1
CCFC 511	(3)	Financial Accounting 1
CCFC 512	(3)	Financial Accounting 2
CCFC 513	(3)	Financial Accounting 3
CCLW 511	(3)	Law 1
CCMA 511	(3)	Managerial Accounting 1
CCMA 522	(3)	Managerial Accounting 2
CCMA 523	(3)	Managerial Accounting 3
CCTX 511	(3)	Taxation 1
CCTX 532	(3)	Taxation 2
CFIN 512	(3)	Corporate Finance
CFIN 522	(3)	Applied Topics: Corporate Finance
CMIS 541	(3)	Information Systems for Managers
CPL2 552	(3)	Strategic Management

Required Courses (16 credits)

ACCT 653	(3)	Issues in Professional Accounting 1
ACCT 654	(3)	Issues in Professional Accounting 2

ACCT 663	(3)	Strategic Aspects of Accounting 1
ACCT 664	(3)	Strategic Aspects of Accounting 2
ACCT 695	(4)	Integrative Analysis

Complementary Courses (8 credits)

8 credits from the following:

ACCT 683	(4)	Practice of Taxation

Professors

V.R. Errunza; B.S., B.S.(Tech.)(Bom.), M.Sc., Ph.D.(Calif., Berk.) – *Finance* (*Bank of Montreal Finance Chair*)

S. Faraj; B.S.(Wisc. Milwaukee), M.S.(MIT), DBA – *Strategy and Organization*

S. Li; M.S.(Georgia Tech.), Ph.D.(Texas-Austin) – *Management Science*

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 Montréal), Ph.D.(Calif. Irvine) – *Information Systems* (*James McGill Professor and IMASCO Chair in I.S.*)

S. Ray; B.E.(Jad.), M.E.(AIT), Ph.D.(Wat.) – *Operations Management*

V. Verter; B.A., M.S.(Bogaziçi), Ph.D.(Bilkent) – *Operations Management* (*Director CREATE Program and James McGill Professor*)

Associate Professors

A. Animesh; B.Com.(Delhi), M.I.S.(Carn. Mell), Ph.D.(Md.) – *Decision and Information Systems*

L. Barras; B.Com., M.Sc, Ph.D.(Geneva) – *Finance*

G. Bassellier; B.Com., M.Sc.(HEC Montréal), Ph.D.(Br. Col.) – *Information Systems*

S. Betermier; B.A.(Calif., Davis), M.S., Ph.D.(Calif., Berk.) – *Finance*

M. Bouvard; M.Sc.(HEC Paris), Ph.D.(Toulouse) – *Finance*

F. Carrieri; Laurea-Law(Bari), M.A., Ph.D.(USC) – *Finance*

L. Cohen; B.A.(Kalamazoo), M.B.A.(Duke), Ph.D.(Calif., Berk.) – *Organizational Behaviour*

B. Croitoru; DIAF(Institut de Statistique, Paris VI), Ph.D.(Wharton) – *Finance*

A. de Motta; B.A.(València), Ph.D.(MIT) – *Finance*

J. Ericsson; M.Sc., Ph.D.(SSE) – *Finance*

H. Etemad; B.S.C., M.Eng.(Tehran), M.S., M.B.A., Ph.D.(Calif., Berk.) – *International Business*

D. Etzion; B.Sc.(Ben-Gurion), M.Sc.(Tel Aviv), Ph.D.(IESE, U. de Navarra) – *Strategy and Organization*

R. Goyenko; B.S.(Donetsk, Ukraine), M.A.(CEU), M.S.(Siena), M.B.A., Ph.D.(Ind.) – *Finance*

M. Gumus; B.S.(Naval Academy, Istanbul), M.S., M.A., Ph.D.(Calif., Berk.) – *Industrial Engineering and Operations Management*

K. Han; B.S., M.S.(KAIST), Ph.D.(Minn.) – *Information Systems*

P. Hewlin; B.A.(SUNY, Binghamton), M.B.A., Ph.D.(NYU) – *Organizational Behaviour*

A.M. Jaeger; B.Sc.(N'western), M.B.A., Ph.D.(Stan.) – *Organizational Behaviour*

M-S. Jo; B.Com.(Hankuk U.), M.B.A.(Mich.), M.S.(Ill.-Urbana-Champaign), Ph.D.(Colo.) – *Marketing*

J. Jörgensen; B.A., M.A.(UNC-Chapel Hill), Ph.D.(McG.) – *Strategy and Organization*

L. Lapointe; B.A., M.Sc.(Montr.), Ph.D.(HEC Montréal) – *Information Systems*

Y. Ma; B.A.(Nankai), M.S.B.A., Ph.D.(Wash.) – *Marketing*

S. Mantere; M.Sc.(TKK), M.A.(Helsinki), Ph.D.(TKK) – *Strategy and Organization/MDIIM*

A. Mukherjee; B.Eng.(Jad.), 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.(USC Marshall), Ph.D.(Calif., Irvine) – *Information Systems*

B. Rubineau; 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*

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.(ENS Paris-Saclay), Ph.D.(École Poly., France) – *Information Systems*

Associate Professors

D. V

CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members

R. Mackalski; B.Sc.(Bran.), M.B.A., Ph.D.(McG.) – *Mark*McGIT, M.B.A., equij1 0 0 1 187.4. 72694.12725.5vj1 0 0 1 187.8.2382694.12725.5alent(IIMA – BrAmbas

11.2.3 Graduate and Postdoctoral Studies' Mission

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

11.3 Important Dates

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

11.4 Graduate Studies at a Glance

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

11.5 Program Requirements

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

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

11.6 Graduate Admissions and Application Procedures

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

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

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

11.7 Fellowships, Awards, and Assistantships

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

11.8 Postdoctoral Research

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

11.8.1 Postdocs

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

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

11.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A *section 1.2.8: leave of absence* for parental or health reasons may extend the eligibility period. Leaves for other reasons, including vacation, do not impact the eligibility period.

   ii. Some McGill postdocs have dual status as both students and employees (unionized or non-unionized). Consult the *Graduate and Postdoctoral Studies website* for definitions of Postdoctoral Fellows, Postdoctoral Scholars and Postdoctoral Researchers.

   iii. Postdocs must conduct research under the supervision of a McGill professor (including Adjunct Professors), qualified in the discipline in which training is being pro

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental polic

- 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

11.11 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

11.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2020–2021 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, Rooms M21-M31
Montreal QC H3A 0C7
Canada
Telephone: 514-398-6350
Fax: 514-398-5047
Website: *www.mcgill.ca/anatomy*

11.12.1.2 About Anatomy and Cell Biology

The Department offers graduate programs leading to

- tumour cell biology;
- dev

TOEFL: Minimum score of 86 on the Internet-based test (iBT; 567 on the paper-based test (PBT)) with each component score 20 or higher.

or

IELTS: Minimum ov

Professors

Marc D. McKee; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Dentistry*)

Peter McPherson; B.Sc.(Manit.), Ph.D.(Iowa) (*joint appt. with Neurology and Neurosurgery*)

Carlos R. Morales; D.V.M.(UNNE, Argentina), Ph.D.(McG.)

Joaquin Ortega; B.Sc.(Zaragoza), Ph.D.(Autonoma, Madrid)

Barry I. Posner; M.D.(Manit.), F.R.C.P.(C) (*joint appt. with Medicine*)

Dieter Reinhardt; M.S.(Kaiserslautern), Ph.D.(Munich) (*joint appt. with Dentistry*)

Alfredo Ribeiro-da-Silva; M.D., Ph.D.(U.Porto) (*joint appt. with Pharmacology and Therapeutics*)

Wayne Sossin; S.B.(MIT), Ph.D.(Stan.) (*joint appt. with Neurology and Neurosurgery*)

Stefano Stifani; D.Chem.(Rome), Ph.D.(Alta.) (*joint appt. with Neurology and Neurosurgery*)

Hojatollah Vali; B.Sc., M.Sc., Ph.D.(Munich)

Dominique Walker; B.Sc., Ph.D.(Geneva) (*joint appt. with Psychiatry*)

Associate Professors

Orest W. Blaschuk; B.Sc.(Winn.), M.Sc.(Manit.), Ph.D.(Tor.) (*joint appt. with Surgery*)

Eugene Daniels; M.Sc., Ph.D.(Manit.)

Craig Mandato; B.Sc., Ph.D.(Wat.)

Geoffroy P. Noël; Ph.D.(Br. Col.)

John F. Presley; B.A., Ph.D.(Texas)

Assistant Professors

Susanne Bechstedt; B.Sc.(Flor. St.), M.Sc.(Friedrich Schiller), Ph.D.(Max Planck)

Khanh Huy Bui; B.Sc.(UNSW), M.Sc.(Chalmers), Ph.D.(ETH Zürich)

Sean McWatt; B.Sc., M.Sc., Ph.D.(Guelph)

Michael Strauss; B.Ed.(Trent), B.Sc.(W. Laur.), M.Sc.(Tor.), D.Phil.(Goethe)

Javier Vargas; Ph.D.(UCM, Spain)

Gabriel Venne; Ph.D.(Qu.)

Nicole Ventura; Ph.D.(Qu.)

Mina Zeroual; M.D.(Hassan II Casablanca)

Natalie Zeytuni; B.Sc., M.Sc., Ph.D.(Ben-Gurion)

Associate Members

Daniel Bernard (*Pharmacology and Therapeutics*)

Claire Brown (*Physiology*)

Colin Chalk (*Neurology and Neurosurgery*)

Jean-François Cloutier (*Neurology and Neurosurgery*)

Claudio Cuello (*Pharmacology and Therapeutics*)

Giovanni Di Battista (*Medicine*)

Allen Ehrlicher (*Bioengineering*)

Alyson Fournier (*Neurology and Neurosurgery*)

Lisbet Haglund (*Surgery*)

Janet Henderson (*Medicine*)

Loydie A. Jerome-Majewska (*Pediatrics and Human Genetics*)

Mari T. Kaartinen (*Dentistry*)

Svetlana Komarova (*Dentistry*)

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

11.12.2 Biochemistry

11.12.2.1 Location

Department of Biochemistry
McIntyre Medical Sciences Building
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Canada
Christine Laberge: Student Affairs Officer/Graduate Program Coordinator
Telephone: 514-398-2423
Email: *christine.laberge@mcgill.ca*
Website: *www.mcgill.ca/biochemistry*

11.12.2.2 About Biochemistry

The Department of Biochemistry offers M.Sc. and Ph.D. programs, which emphasize laboratory research. Our research interests include:

- molecular and cell biology;
- the regulation of gene and protein expression;
- signal transduction;
- protein structure and function;
- membrane biology;
- cell death and differentiation;
- embryonic development;
- neurobiology;
- bioinformatics;
- cancer.

Specialized graduate training programs in Chemical Biology, Human Systems Biology (Bioinformatics), *Cancer Research/Oncology*, and *Structural Biology* are available. Laboratories are located in the new Bellini Life Sciences Building and Goodman Cancer Research Centre, and the renovated McIntyre Medical Sciences Building, together comprising one of the best-equipped research facilities in Canada. The outstanding quality of our research has been recognized by recent awards including a Gairdner Award, two Killam Prizes, and eight Canada Research Chairs.

Funding

Master's students receive a minimum stipend of $20,000 annually; doctoral students receive $22,000. The Department is committed to helping graduate students secure adequate funding for their research. All students are financially supported either by their supervisor or through fellowships or scholarships. Prospective students are urged to make every effort to secure their own funding. Applications may be made for a variety of fellowships administered by the University or by various federal, provincial, or private agencies. For more information on fellowships and awards, see the *Graduate and P*

section 11.12.2.6: Master of Science (M.Sc.) Biochemistry (Thesis): Bioinformatics (45 credits)

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 11.12.2.7: Master of Science (M.Sc.) Biochemistry (Thesis): Chemical Biology (47 credits)

The Chemical Biology Thematic Group is engaged in a diverse range of research topics, which span structural biology, enzymology, nucleic acid research, signalling pathways, single molecule biophysics, and biophysical chemistry of living tissues. Among the themes that unite the research being performed in this group is the attempt to learn new chemistry and physics from biological systems. We have projects relating to pharmaceutically relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer, and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

The Chemical Biology graduate option is centred on the pursuit of an original research project under the direction of one or more mentors. The program is supported by McGill University and by the Canadian Institutes of Health Research (CIHR) through its Strategic Training Initiatives program.

The program of training incorporates several important features, including a diverse curriculum and programs of seminars, workshops, and discussion groups designed to provide students with a well-rounded exposure to both the chemical and biological aspects of the discipline. The M.Sc. option provides a foundation in the concepts and approaches of Chemical Biology.

section 11.12.2.8: Doctor of Philosophy (Ph.D.) Biochemistry

The Ph.D. in Biochemistry trains students in laboratory-based research at the highest level. The Ph.D. program is streamlined to emphasize independent research, and the many areas of biochemistry studied in our Department offer a wide choice of specialties. Students gain in-depth expertise in biochemistry and the biomedical sciences, with the opportunity to carry out research projects at a world-class level and build collaborations with other leading research groups.

Graduates of the Ph.D. program are outstandingly prepared for leadership careers in the basic health sciences in industry, the public sector, or academia.

section 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 overview of research in this field.

section 11.12.2.10: Doctor of Philosophy (Ph.D.) Biochemistry: Chemical Biology

The Chemical Biology Thematic Group is engaged in a diverse range of research topics which span structural biology, enzymology, nucleic acid research, signalling pathways, single molecule biophysics, and biophysical chemistry of living tissues. Among the themes which unite the research being performed in this group is trying to learn new chemistry and physics from biological systems. We have projects relating to pharmaceutically relevant enzymes such as those in

11.12.2.3 Biochemistry Admission Requirements and Application Procedures

11.12.2.3.1 Admission Requirements

Admission is based on the candidate's academic record, letters of recommendation, curriculum vitae, and personal statement. A minimum grade point average of 3.2/4.0 (B+) is required. Once a student has submitted all the required documents, the applicant's file will be reviewed by the Graduate Admission Committee. Files that do not meet the minimum requirement will not be considered. Applicants must also be accepted by a research supervisor who is a faculty member or associate member of the Department of Biochemistry. Recommendation for admission will be made once the applicant has secured a supervisor and adequate financial support. Financial support should be in the form of a stipend from the supervisor's research grant or a fellowship held by the student.

Master's Program

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent in Biochemistry or in related disciplines (e.g., biology, chemistry, physiology, microbiology).

Doctoral Program

Candidates who have completed their M.Sc. degree may be admitted directly to the Ph.D. program. Candidates who are admitted to the M.Sc. program and who are interested in the Ph.D. may transfer into the Ph.D. program after successfully completing the transfer seminar (BIOC 701) and all course requirements. The M.Sc. thesis requirement is then waived.

International Applicants

Applicants to graduate studies whose mother tongue is not English and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit the following:

- *TOEFL* (Test of English as a Foreign Language): The CBT is no longer being offered. CBT results will no longer be accepted as ETS no longer reports these results. N.B. an institutional version of the TOEFL is not acceptable. Minimum acceptable scores are: IBT (Internet-Based Test): 86 overall, no less than 20 in each of the four component scores. PBT (Paper-Based Test): 567

  or

  IELTS: (International English Language Testing System): a band score of 6.5 or greater (Academic module)
-

	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 20	June 15	June 15
Winter Term:	Feb. 15	Sept. 1	Nov. 1	Nov. 1
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.

11.12.2.4 Biochemistry Faculty

Chair

Albert Berghuis

Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (*Gilman Cheney Professor of Biochemistry*)

Peter E. Braun; B.Sc., M.Sc.(Br. Col.), Ph.D.(Calif., Berk.)

Robert E. MacKenzie; B.Sc.(McG.), M.N.S., Ph.D.(Cornell)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

John R. Silvius; B.Sc., Ph.D.(Alta.)

Clifford P. Stanners; B.Sc.(McM.), M.A., Ph.D.(Tor.)

Maria Zannis-Hadjopoulos; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Oncology and Medicine*)

Professors

Nicole Beauchemin; B.Sc., M.Sc., Ph.D.(Montr.) (*joint appt. with Oncology and Medicine*)

Albert Berghuis; B.Sc., M.Sc.(Groningen), Ph.D.(Br. Col.)

Maxime Bouchard; B.Sc., Ph.D.(Laval)

Josée Dostie; B.Sc.(Sher.), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheure-boursière du FRSQ*)

Thomas Duchaine; B.Sc., Ph.D.(Montr.) (*Chercheur-boursier du FRSQ*)

Imed Gallouzi; Maitrise, D.E.A., Ph.D.(Montp.)

Kalle Gehring; B.A.(Brown), M.Sc.(Mich.), Ph.D.(Calif., Berk.) (*Chercheur National du FRSQ*)

Vincent Giguère; B.Sc., Ph.D.(Laval) (*joint appt. with Oncology and Medicine*)

Philippe Gros; B.Sc., M.Sc.(Montr.), Ph.D.(McG.), F.R.S.C. (*James McGill Professor*)

Alba Guarné; B.Sc., M.Sc., Ph.D.(Barcelona)

Roderick R. McInnes; B.Sc., M.D.(Dal.), Ph.D.(McG.)

William Muller; B.Sc., Ph.D.(McG.) (*Canada Research Chair in Molecular Oncology*)

Bhushan Nagar; B.Sc., Ph.D.(Tor.)

Professors

Michel L. Tremblay; B.Sc., M.Sc.(Sher.), Ph.D.(McM.), F.R.S.C. (*Jeanne and Jean-Louis Levesque Chair in Cancer Research*)

Associate Professors

Sidong Huang; B.A.(Boston), Ph.D.(Calif. San Francisco) (*Canada Research Chair in Functional Genomics*)

Martin Schmeing; B.Sc.(McG.), Ph.D.(Yale) (*Canada Research Chair in Macromolecular Machines*)

Jose G. Teodoro; B.Sc.(UWO), Ph.D.(McG.) (*CIHR New Investigators Award; Chercheur-boursier du FRSQ*)

Jason C. Young; B.Sc.(Tor.), Ph.D.(McM.)

Assistant Professors

Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)

Natasha C. Chang; B.Sc., M.Sc.(McG.)

Maxime Denis; B.Sc., Ph.D.(Montr.)

Lawrence Kazak; Ph.D.(Camb.)

William Pastor; Ph.D.(Harv.)

Maria Vera Ugalde; B.Sc., Ph.D.(Navarra)

Ian Watson; B.Sc., Ph.D.(Tor.) (*Canada Research Chair in Functional Genomics of Melanoma*)

Associate Members

Gary Brouhard (*Dept. of Biology*)

Marc Fabian (*Dept. of Oncology*)

Robert S. Kiss (*Dept. of Medicine*)

Gergely Lukacs (*Dept. of Physiology*)

Luke McCaffrey (*Dept. of Oncology*)

Janusz Rak (*Dept. of Medicine*)

Stéphane Richard (*Depts. of Medicine and Oncology*)

Selena M. Sagan (*Dept. of Microbiology & Immunology*)

Reza Salavati (*Inst. of Parasitology*)

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; B.Sc., D.Sc.(Laval) (*IRCM*

BIOC 698	(12)	Thesis Research 2
BIOC 699	(15)	Thesis Research 3

Required Course (3 credits)

BIOC 696	(3)	Seminars in Biochemistry

Complementary Courses* (6 credits)

At least 3 credits must be chosen from the following:

BIOC 600	(3)	Advanced Strategies in Genetics and Genomics
BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
BIOC 605	(3)	Protein Biology and Proteomics
BIOC 670	(3)	Biochemistry of Lipoproteins
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus additional credits, to a minimum of 6 total complementary course credits, of 500- or higher-level courses in biomedical and allied sciences.

* Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

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

BIOC 600	(3)	Advanced Strategies in Genetics and Genomics
BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
BIOC 605	(3)	Protein Biology and Proteomics
BIOC 670	(3)	Biochemistry of Lipoproteins
EXMD 615	(3)	Essentials of Glycobiology
EXMD 635D1	(3)	Experimental/Clinical Oncology
EXMD 635D2	(3)	Experimental/Clinical Oncology

Plus additional credits to a minimum of 6 total complementary course credits of 500- or higher-level courses in the biomedical and allied sciences.

*** Complementary courses are chosen in consultation with the Research Director.

The Graduate Advisory Committee may stipulate additional course work depending on the background of the candidate. BIOC 450 (Protein Structure and Function) and BIOC 454 (Nucleic Acids) are additional requirements for those who have not previously completed equivalent courses in their prior training.

11.12.2.9 Doctor of Philosophy (Ph.D.) Biochemistry: Bioinformatics

Thesis

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

Required Courses (6 credits)

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
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. lev

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
PHAR 503	(3)	Drug Discovery and Development 1

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 9 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
		Adv

- Faculty of Medicine, Division of Experimental Medicine, Department of Human Genetics, Department of Family Medicine;
- Faculty of Law; and
- Faculty of Arts, Department of Philosophy, School of Religious Studies.

Students receive an **M.A.**, **LL.M.**, or **M.Sc.** degree in the discipline chosen with a specialization in Bioethics.

Some applicants are mid-career professionals currently working as physicians, nurses, social workers, other health care providers, or lawyers. Other applicants have recently completed their undergraduate degrees in science, philosophy, law, religious studies, or other disciplines, and wish to pursue specialized master's level training in bioethics before enrolling in doctoral level studies or entering the workplace.

Students pursuing the master's degree specialization normally take two semesters of courses before beginning their master's thesis. Courses offered include Bioethics Theory, Public Health Ethics and Policy, Research Ethics, and a Practicum that includes placement in a clinical or research setting. Research and writing the thesis normally takes one year. Students must also comply with the course and thesis requirements of their home disciplines.

11.12.3.3 Bioethics Admission Requirements and Application Procedures

11.12.3.3.1 Admission Requirements

M.D., professional training in a health science, or bachelor's degree in the sciences, social sciences, law, philosophy, or religious studies. Other students may be considered on an individual basis.

Enrolment is limited to 12 students.

11.12.3.3.2 Application Procedures

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

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

Applications for the Master's Specialization in Bioethics are made initially through the Faculties of Law, Medicine (Division of Experimental Medicine, Department of Human Genetics, Department of Family Medicine), and Arts (Department of Philosophy, School of Religious Studies).

Applicants must satisfy the admission criteria for their chosen discipline and those of the Bioethics Unit, which administers the program and teaches the core courses; see *www.mcgill.ca/biomedicalethicsunit/teaching/masters/apply*.

Applicants must be accepted by the appropriate Faculty, the Bioethics Graduate Studies Advisory Committee, and Graduate and Postdoctoral Studies.

11.12.3.3.3 Application Dates and Deadlines

Deadlines coincide with those of the chosen base discipline. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-ppline. h3cp0 1 381.Ms..at50 0 11 393.6Notr's leSee*

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Associate Members

R. Gold (*Faculty of Law*)

A. Fuks (*Department of Medicine*)

M. Hunt (*School of Physical & Occupational Therapy*)

Y. Joly (*Human Genetics*)

L. Khoury (*Faculty of Law*

B.M. Knoppers (*Centre of Genomics and Policy*)

M.E. Macdonald (*MQHRG*)

T. Maniatis (*Faculty of Medicine*)

B. Thombs (*Psychiatry*)

D. Weinstock (*Institute for Health and Social Policy*)

M.H. Zawati (*Human Genetics*)

K. Voigt (*Department of Philosophy*)

11.12.4 Biomedical Engineering

11.12.4.1 Location

Department of Biomedical Engineering
Duff Medical Building
3775 University Street, Room 316
Montreal QC H3A 2B4
Canada
T

Staff members are also active in more applied research related to the development of quantitative analysis tools and instruments for biomedical research. Areas of activity here include: signal analysis, system identification, modelling, simulation and parameter estimation, image processing, pattern recognition, ultrasound, and biorobotics.

Professors

S. Prakash; B.Sc., M.Sc., M.Tech.(BHU), Ph.D.(McG.)

M. Tabrizian; B.Sc.(Iran), M.Sc., Ph.D.(Paris

Associate Members

J. Near (*Psychiatry*)

D. Nicolau (*Bioengineering*)

C. Pack (*Neurology and Neurosurgery*)

D. Pasini (*Mechanical Engineering*)

W. Reisner (*Physics*)

A. Shmuel (*Neurology and Neurosurgery*)

B. Willie (*Pediatric Surgery*)

Y.B. Xia (*Bioengineering*)

Adjunct Professors

P.G. Charette; Ph.D.(McG.) (*Sher.*)

K. Cullen; Ph.D.(Chic.) (*Physiology*)

I. El Naqa; Ph.D.(Ill. IT) (*Mich.*)

C. Grova; Ph.D.(Rennes) (*C'dia*)

J.-M. Lina; Ph.D.(Montr.) (*ETS*)

M. Mekhail; Ph.D.(McG.) (*Shriners*)

J.L. Nadeau; Ph.D.(Minn.) (*Caltech*)

G.B. Pike; Ph.D.(McG.) (*Calg.*)

A. Reader; Ph.D.(Lond.) (*King's, Lond.*)

T. Veres; Ph.D.(Montr.) (*NRC*)

11.12.4.5 Graduate Certificate (Gr. Cert.) Translational Biomedical Engineering (15 credits)

NEW PROGRAM

This program comprises mandatory courses dealing with topics that are unique to the translational process in the biomedical engineering environment. Topics covered will include: managing intellectual property; patents and the patenting process; regulatory affairs; medical standards; quality management systems; and clinical trials. Complementary courses will provide students with advanced training in a specialized area of biomedical engineering selected from the areas where Departmental staff have significant expertise.

In cases where students have taken one or more of the core courses as part of another program, these core courses will be replaced with the equivalent number of credits, at the 500 level or higher, by other appropriate courses selected in consultation with the program director.

Required Courses (9 credits)

Three courses dealing with issues related specifically to the translation of biomedical engineering advances to clinical and commercial environments:

BMDE 653	(3)	Patents in Biomedical Engineering
BMDE 654	(3)	Biomedical Regulatory Affairs - Medical Devices
		Biomedical Clinical Trials - Medical De

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 550	(3)	Biomolecular Devices
BIEN 560	(3)	Design of Biosensors
BMDE 503	(3)	Biomedical Instrumentation
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering

Translational Biomedical Engineering

BMDE 656	(3)	Medical Device Reimbursement

11.12.5 Communication Sciences and Disorders

11.12.5.1 Location

School of Communication Sciences and Disorders
2001 McGill College Avenue, Suite 800
Montreal QC H3A 1G1
Canada
Telephone: 514-398-4137
Fax: 514-398-8123
Email: *scsd@mcgill.ca*
Website: *www.mcgill.ca/scsd*

11.12.5.2 About Communication Sciences and Disorders

The School provides both professional and research training in communication sciences and disorders at the graduate level through its **M.Sc. (Applied)**, **M.Sc.**, and **Ph.D.** degrees. We were the first department in Canada to provide both clinical and research degrees. Our M.Sc.A. program aims to educate the next generation of well-prepared and innovative speech-language pathology professionals by providing enriched classroom training, clinical laboratory activities that enhance the transition from theory to practice, and outstanding clinical practicum experiences. Our research degrees are designed to develop leading researchers and scholars, who will go on to train future investigators in the field of communication sciences and disorders and who, through their research, will advance our understanding of the processes of human communication and its breakdown.

Our applied and research degrees may lead to employment in healthcare or educational facilities, academic settings, or private industry.

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 at 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 exceptional verbal and written knowledge of the French language. See *University Regulations & Resources > Undergraduate > Admission to Professional and Graduate Studies > : Language Requirements for Professions*.

Funding

section 11.12.5.5: 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 Advisory Committee designs 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 11.12.5.7: Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders

Selected candidates may be accepted into the Ph.D. research degree program. Each student's Advisory Committee designs 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 e

Ph.D. in Communication Sciences and Disorders

Applicants should normally have a master's degree with thesis or its equivalent in Communication Sciences and Disorders or a related field (e.g., psychology, linguistics).

Students who possess an appropriate bachelor's degree or master's degree without thesis will also be considered for the Ph.D. program, but, if admitted, must first complete a Qualifying year of coursework and a research project. All applications received by the application deadlines are automatically considered for any internal funding or awards made available to the Department for recruitment purposes. Students who apply for Fall admission generally have the most options with respect to applying for external funding as well as for being considered for internal support.

11.12.5.3.2 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.

Please see the *School of Communication Sciences and Disorders website* for required application materials.

11.12.5.3.2.1 Additional Requirements

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

M.Sc. (Applied)

- *Casper Online Test*
- 21 credits Prerequisite coursework, provide details in uApply as specified
- Brief personal statement
- Curriculum Vitae
- Two Reference Letters (one professional and one academic)

M.Sc. (Thesis) and Ph.D.

- Personal Statement
- Curriculum Vitae
- Writing Sample
- Acceptance by a research supervisor
- Two Reference Letters (academic)

If available, applicants are encouraged to submit reports of their performance on the Graduate Record Examination (*GRE*).

11.12.5.3.3 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 School of Communication Sciences and Disorders and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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:	Feb. 15	Sept. 15	Sept. 15	Sept. 15
Summer Term:	N/A	N/A	N/A	N/A

11.12.5.4 Communication Sciences and Disorders Faculty

Director and Associate Dean

Susan Rvachew

Graduate Program Director

Linda Polka

Professors

Shari R. Baum; B.A.(Cornell), vfessorsB 0 0 1 208.386 79.11 Tm(Shari Rwn 0 0 1 216.9833.04 T08.itae)TjMarc D. Pvfe(CornellOtt.ssors)Tci,progra(Stu. 0 0 12 9 216

Adjunct Professors

Lucie Ménard (*UQAM*)

Doug Shiller (*Montr.*)

Associate Members

Eva Kehayia (*Physical and Occupational Therapy*)

Denise Klein (*Neurology and Neurosurgery*)

Luc Mongeau (

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

Complementary Courses (6 or 21 credits)

For both PhD 1 and PhD 2: 6 credits of statistics courses at the 500 level or higher, pre-approved by the supervisor and the graduate program director.

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.

11.12.5.8 Doctor of Philosophy (Ph.D.) Communication Sciences and Disorders: Language Acquisition

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

For details go to: www.psych.mcgill.ca/lap.html.

Students who have completed a Master's degree with research thesis in Communication Sciences and Disorders or a related area are admitted at level PhD 2. High-caliber students who have not completed a research thesis at the Master's level can enter the Qualifying Year Program (admitted at level PhD 1), which includes extra requirements (coursework and a research project) at the onset of the program.

Thesis

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

For both PhD 1 and PhD 2:

Language

11.12.6 Epidemiology and Biostatistics

11.12.6.1 Location

Department of Epidemiology, Biostatistics and Occupational Health
1020 Pine Avenue West
Montreal QC H3A 1A2
Canada
Telephone: 514-398-6258
Email: *graduate.eboh@mcgill.ca*
Website: *www.mcgill.ca/epi-biostat-occh*

11.12.6.2 About Epidemiology and Biostatistics

The Department offers

Professors Post-Retirement

L. Joseph; M.Sc., Ph.D.(McG.)

I.B. Pless; B.A., M.D.(UWO)

G. Thériault; M.D.(Laval), M.I.H., Dr.P.H.(Harv.)

Associate Professors Post-Retirement

B. Case; B.Sc., M.D.,C.M., M.Sc.(McG.), Dip.Occ.Hyg., F.R.C.P.(C)

A. Ciampi; M.Sc., Ph.D.(Qu.), Ph.D.(Rome)

Professors

M. Abrahamowicz; Ph.D.(Cracow) (*James McGill Professor*)

J. Brophy; B.Eng.(McG.), M.Eng., M.D.(McM.), Ph.D.(McG.) (*joint appt. with Medicine*)

D. Buckeridge; M.D.(Qu.), M.Sc.(Tor.), Ph.D.(Stan.) (*CIHR Applied Public Health Chair*)

TUW GEvUWans; B.Sc.(Ott.), D.Phil.(Oxf.), M.D.(McM.)

E.L.F. Franco; M.P.H., Dr.P.H.(UNC-Chapel Hill) (*joint appt. with Oncology*) (*James McGill Professor*)

R. Fuhrer; B.A.(Brooklyn Coll., CUNY), M.Sc., Ph.D.(Calif., San Francisco)

C. Greenwood; B.Sc.(McG.), M.Sc.(Wat.), Ph.D.(Tor.) (*joint appt. with Oncology*)

T.W. Gyorkos; B.Sc.(McG.), M.Sc.(Bishop's), Ph.D.(McG.)

C. Hankins; B.A., M.D.(Calg.), M.Sc.(Lond.), Ph.D.(AmsterJ212.862 479.76 Tm385944 526.92 Menzies; 0 1 70.52 641.96 Tm(B. raco)Tj1 0 0 1 175.174 58991 1593

Associate Professors

E.E.M. Moodie; B.A.(Winn.), M.Phil.(Camb.), Ph.D.(Wash.) (*William Dawson Scholar*)

Associate Members

Physical and Occupational Therapy: S. Ahmed

Psychiatry: S.N. Iyer, E. Latimer, A. Malla, X. Meng, N. Schmitz, J. Shah, B. Thombs

Sociology: S. Clark

Surgery: A. Andalib, D. Deckelbaum, S. Dumitra, 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

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

- epidemiologic methods;
- chronic diseases;
- reproductive and perinatal epidemiology;
- genetic epidemiology;
- global health;
- causal inference;
- and many cross-disciplinary activities.

Faculty members may ha

section 11.12.6.4.8: 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 impro

section 11.12.6.4.6: Master of Science (M.Sc.) Public Health (Non-Thesis) (60 credits)

The mission of the Master of Science in Public Health is to train outstanding public health professionals and future leaders by offering a rigorous academic program in methods, research, and practice. This program may be of interest for students from the natural or quantitative sciences (e.g., microbiology, computer science, statistics, economics, geography), social sciences (e.g., sociology, psychology, anthropology), or the health professions (e.g., medicine, nursing, social work, physical and occupational therapy, nutrition). Through a core series of courses, a wide range of electives, and a practicum, students will acquire knowledge and skills in all the core competencies of public health, including public health sciences; assessment and analysis; policy and program planning, implementation and evaluation. Graduates of the program will serve as public health practitioners or research professionals and will possess the competencies and professionalism to carry out broad public health functions in local, provincial, national, and international settings. In exceptional circumstances, the Admissions Committee may take professional experience into account for mid-career or returning/re-entry applicants.

The Master of Science in Public Health program includes a 14–16 week field-based practicum after the first year, which will provide the student with the opportunity to use knowledge and skills acquired in the academic program in a public health practice or research setting.

11.12.6.4.2 Epidemiology & Public Health Admission Requirements and Application Procedures

11.12.6.4.2.1 Admission Requirements

The graduate programs in Epidemiology (M.Sc. and Ph.D.) and Public Health (M.Sc.) require substantial quantitative skills. The Admission Committees for these programs will look for proof of quantitative proficiency such as good grades in undergraduate-level courses in differential or integral calculus or in statistics (for M.Sc. applicants) and in master's-level courses (for Ph.D. applicants).

The *GRE* is required of candidates who are health professional graduates from universities outside North America.

Master's in Epidemiology

Applicants to the M.Sc. in Epidemiology programs must hold a bachelor's degree in a related area.

Master's of Public Health

Applicants to the Master's of Public Health programs must hold a bachelor's degree. Experience in this field is an asset.

Ph.D.

Applicants to Ph.D. programs must hold a master's degree in Epidemiology or its equivalent. In addition to the Ph.D. requirements, applicants admitted to the Ph.D. degree program without the equivalent of an M.Sc. in Epidemiology at McGill will, in their first year, have to complete required coursework equivalent to the Master's Epidemiology program, as determined by the Department.

Complete details on the Epidemiology programs are available on our *Departmental website*. Information on the Master's of Public Health program is available *here*.

Language Requirement

Minimum *TOEFL* scores required, when applicable, of 100 on the Internet-based test. Minimum score for *IELTS*: 6.5.

11.12.6.4.2.1.1 Application Procedures

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

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

Completed applications, with all supporting documents, must be uploaded directly to the McGill admissions processing system by the application deadlines.

Please see our website, *www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying*, for information on required documents.

11.12.6.4.2.1.1.1 Additional Requirements

Please consult *www.mcgill.ca/epi-biostat-occh/academic-programs/grad/epidemiology/applying* for information on our requirements.

11.12.6.4.2.1.2 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 Tm(ailable on oe on oe on nt 0ilaimum)Tj0 lTja

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

11.12.6.4.3 Master of Science (M.Sc.) Epidemiology (Thesis) (45 credits)

Revision, July 2020. Start of revision.

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 (21 credits)

EPIB 690	(21)	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.

Revision, July 2020. End of revision.

Master of Science (M.Sc.) Epidemiology (Non-Thesis): Envir

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.

11.12.6.4.5 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 polic

Complementary Courses (9-18 Credits)

Environmental Health Sciences

3 credits from:

GEOG 503	(3)	Advanced Topics in Health Geography
OCCH 602	(3)	Occupational Health Practice
OCCH 604	(3)	Monitoring Occupational Environment
PPHS 529	(3)	Global Environmental Health and Burden of Disease

Or other course, at the 500 level or higher, selected with the Program's Academic Adviser.

Health Services Research Policy and Management

3 credits from:

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 617	(3)	Impact Evaluation

Or other course, at the 500 level or higher, selected with the Program's Academic Adviser.

Population and Public Health Interventions (social and behavioural science)

3 credits from:

EPIB 632	(3)	Mental Disorders: Population Perspectives and Methods
PPHS 614	(3)	Knowledge Translation and Public Health Leadership
PPHS 616	(3)	Principles and Practice of Public Health Surveillance
PPHS 618	(3)	Program Planning and Evaluation in Public Health

Or other course, at the 500 level or higher, selected with the Program's Academic Adviser.

0-9 credits from one of the following six streams.

In consultation with and approval by the program’s academic adviser, students may focus on one of the following areas.

Courses may not satisfy more than one program requirement.

Stream 1: Epidemiology

9 credits from:

EPIB 628	(3)	Measurement in Epidemiology
EPIB 629	(3)	Knowledge Synthesis
EPIB 637	(3)	Advanced Modeling: Survival and Other Multivariable Data
EPIB 638	(3)	Mathematical Modeling of Infectious Diseases
EPIB 648	(3)	Methods in Social Epidemiology

Stream 2: Global Health

3 credits in:

PPHS 613	(3)	The Practice of Global Health

6 credits from:

EPIB 681	(3)	Global Health: Epidemiological Research
PPHS 511	(3)	Fundamentals of Global Health
PPHS 525	(3)	Health Care Systems in Comparative Perspective
PPHS 529	(3)	Global Environmental Health and Burden of Disease
PPHS 614	(3)	Knowledge Translation and Public Health Leadership
PPHS 615	(3)	Introduction to Infectious Disease Epidemiology
PPHS 618	(3)	Program Planning and Evaluation in Public Health

Stream 3: Population Dynamics

6 credits in:

SOCI 545	(3)	Sociology of Population
SOCI 626	(3)	Demographic Methods

3 credits from:

EPIB 648	(3)	Methods in Social Epidemiology
EPIB 681	(3)	Global Health: Epidemiological Research
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
SOCI 512	(3)	Ethnicity & Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 535	(3)	Sociology of the Family
SOCI 588	(3)	Biosociology/Biodemography

Stream 4: Health Policy and Ethics

3 credits in:

PPHS 624	(3)	Public Health Ethics and Policy

6 credits from:

PPHS 527	(3)	Economics for Health Services Research and Policy
PPHS 528	(3)	Economic Evaluation of Health Programs
PPHS 614	(3)	Knowledge Translation and Public Health Leadership

Stream 5: Infectious Disease

3 credits in:

PPHS 615	(3)	Introduction to Infectious Disease Epidemiology

6 credits from:

EPIB 638	(3)	Mathematical Modeling of Infectious Diseases
PPHS 527	(3)	Economics for Health Services Research and Policy

PPHS 51r7Tj1 0 0 1 265.619 725.5609.84PPHS Economic Evaluation of Health Programs Epidemiology 0 0 1 165.864 725.5609.84PPHS

Required Courses (22 credits)

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

Students with the above qualifications, in addition to an M.Sc. degree in Statistics or Biostatistics, will be considered for Ph.D. admission.

Complete details on the Biostatistics programs are available on our departmental website at *www.mcgill.ca/epi-biostat-occh/academic-programs/grad/biostatistics*.

Language Requirement

The minimum *gr*

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
MA	(4)	Regression and Analysis of Variance

11.12.8 Family Medicine

Please see *section 11.12.12: Medicine, Family* for more information.

11.12.9 Human Genetics

11.12.9.1 Location

Department of Human Genetics
Strathcona Anatomy & Dentistry Building
3640 University Street, Room W-315
Montreal QC H3A 0C7
Canada
Telephone: 514-398-4198
Fax: 514-398-2430
Email: *dept.humang*

section 11.12.9.5: Master of Science (M.Sc.) Human Genetics (Thesis) (45 credits)

- biochemical genetics
- genetics of development
- animal models of human diseases
- cancer genetics
- molecular pathology
- gene therapy
- genetic dissection of complex traits
- genetics of infectious and inflammatory diseases
- non-mendelian genetics
- bioinformatics
- behavioural genetics
- neurogenetics
- bioethics
- genomics

Many of our faculty hold cross-appointments in v

section 11.12.9.9: Doctor of Philosophy (Ph.D.) Human Genetics

Institute and Hospital, the McGill Life Sciences Complex, the *McGill University & Genome Quebec Innovation Centre*, the Biomedical Ethics Unit, and the *Centre for Genomics and Policy*.

section 11.12.9.10: Doctor of Philosophy (Ph.D.) Human Genetics: Bioinformatics

This program is currently not offered.

Students successfully completing the Bioinformatics option at the Ph.D. level will be fluent in the concepts, language, approaches, and limitations of the field and have the capability of developing an independent Bioinformatics research program. Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

Enrolment in the Bioinformatics option can only be approved after a student has been admitted into the Department. There is an agreement for the option that must be signed by the student, supervisor, and Department, and enrolment in the option is subject to space availability and other constraints that the Department cannot assess at the time of admission. For more information, please contact the Graduate Program Coordinator.

11.12.9.3 Human Genetics Admission Requirements and Application Procedures

11.12.9.3.1 Admission Requirements

M.Sc. in Genetic Counselling

Prerequisites:

- Bachelor's or medical degree – minimum cumulative grade point average (CGPA) of 3.0 out of 4.0, or 3.2 out of 4.0 in the last two full-time academic years;
- Recent (within the past five years) university-level courses in molecular/cell biology, biochemistry, advanced genetics (preferably human), statistics, and a minimum of two courses in psychology;
- Some experience (either paid or volunteer) working with adults in a counselling or advisory capacity, ideally in a crisis setting.

For detailed information, visit the *Genetic Counselling Program website*.

M.Sc. and Ph.D. in Human Genetics

Prerequisites:

- B.Sc. – minimum CGPA of 3.2 out of 4.0;
- A minimum of 6 credits in cellular and molecular biology or biochemistry, 3 credits in mathematics or statistics, and 3 credits in genetics.

Admission is based on acceptance by a *research supervisor*, confirmed *funding* for the duration of the academic program, and an online application form evaluated by the Graduate Training Committee.

Prospective graduate students should complete the online application form and indicate the name of the secured research supervisor.

For detailed information, visit the *Human Genetics program website*.

Language Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit a *TOEFL* or *IETLS* test score to McGill University. Minimum scores of 600 on the TOEFL paper-based test, 250 on the computer-based test or 100 on the Internet-based test are required. Each component or subsection score requires a minimum score of 20. On the IELTS the minimum standard for consideration is 7.

Note: TOEFL scores must be sent electronically by the testing agency to McGill University using our institution code of 0935. Scanned copies of results or hard copies sent in the mail will not be entered as received in your application. IELTS scores also must be submitted electronically by the test centre to McGill University.

11.12.9.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* >

M.Sc. Genetic Counselling program* (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	Jan. 01	Jan. 01	Jan. 01
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

M.Sc. (Thesis) and Ph.D. Human Genetics programs

	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:	Feb. 15	Sept. 10	Sept. 10	Sept. 10
Summer Term:	May 15	Jan. 15	Apr. 1	Apr. 1

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.**

11.12.9.4 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., Ph.D.(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.V.M., M.Sc.(Montr.), Ph.D.(McG.) (*William Dawson Scholar*) (*Medicine*)

R. McInnes; C.M.,M.D., Ph.D.(McG.) F.R.S.C. (*Alva Chair in Human Genetics*) (*Director, Lady Davis Research Institute*)

R. Palmour; B.A.(Texas W.), Ph.D.(Texas-Austin) (*Psychiatry and Biology*)

Professors

D. Radzioch; M.Sc., Ph.D.(Jagiellonian) (*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.(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.) (*Medicine*)

J. Trasler; M.D.,C.M., Ph.D.(McG.) (*William Dawson Scholar*) (*Pathology and Pediatrics*)

S. Vidal; Ph.D.(Geneva) (*Medicine*)

Associate Professors

A. Ao; Ph.D.(UCL)

G. Bourque; B.Sc.(Montr.), M.A., Ph.D.(USC) (*Genome Quebec*)

N. Braverman; B.Sc.(Cornell), M.Sc.(Sarah Lawrence), M.D.(Tulane) (*Pediatrics*)

K. Dewar; Ph.D.(Laval) (*Genome Quebec*)

R. Hernandez; Ph.D.(Cornell) (*Genome Innovation Centre*)

Y. Joly; Ph.D.(McG.) (*Centre of Genomics and Policy*)

J. Majewski; B.Sc., M.Sc.(Stan.), Ph.D.(Wesl.)

P. Moffatt; M.Sc.(UQAM), Ph.D.(Montr.) (*Pharmacology*)

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. Yamanaka; Ph.D.(Osaka) (*Goodman Cancer Research Centre*)

Assistant Professors

D. Buhas; M.D.(Craiova) (*Montreal Children's Hospital*)

L. Cartier; B.Sc., M.Sc.(McG.)

G. Chong; Ph.D.(Kansas St.)

C. Crist; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tokyo)

M-D. D'Agostino; M.D., M.Sc., F.R.C.P.C.

I. De Bie; M.D.(Laval), Ph.D.(McG.) (*Montreal Children's Hospital*)

J. Fitzpatrick; M.S.(Mich.) (*Pediatrics and Medicine*)

S. Gravel; Ph.D.(Physics)(Cornell) (*Numerical methods*)

C. Kleinman; Ph.D.(Montr.) (*Bioinformatics*)

D. Langlais; Ph.D.(Montr.)

B. Mucha-Le Ny; M.D.(Freiburg)

H. Najafabadi; Ph.D.(Montr.) (*Genome Innovation Centre*)

L-C. Palma; M.Sc.(Tor.)

I. Ragoussis; Ph.D.(Tübingen)bingen)bz6 Tm.76 Tm(nome Inno)Tj1 0 0 1 214.43329m.76 Tm(tion Centr)Tj1 0 0 1 254.872 32.76 Tm(Tj/F1 8.1 Tf1 0 0 1 260.409 86.

Assistant Professors

J.-B. Ri Pr

Associate Members

Core Molecular Diagnostic Laboratory - Cytogenetics: J. Lavoie

Dentistry: L. Diatchenko

Endocrinology: C. Polychonakos, B. Richards

Epidemiology, Biostatistics and Occupational Health: C. Greenwood

Experimental Medicine: S. Ali, S. Richard, S-A. Rabbani

Law: R. Gold

Medicine: D. Cournoyer, J. Engert, L. Garzia, B. Gilfix, C. Gilpin, G.Hendy, R. Koenekoop, A. Peterson, F. Rauch, M. Trifiro

Nephrology: I. Gupta

Neurology: G. Rouleau, Z. Gan-Or, M. Srour

Obs.-Gyn.: A. Naumova

Pediatrics: C. Goudie, N. Jabado, L. Majewska, J. Mitchell, J. Rak

Psychiatry: R. Joober, G. Turecki, C. Ernst

11.12.9.5 Master of Science (M.Sc.) Human Genetics (Thesis) (45 credits)

Thesis Courses (33 credits)

HGEN 680	(9)	M.Sc. Thesis Research 1
HGEN 681	(12)	M.Sc. Thesis Research 2
HGEN 682	(12)	M.Sc. Thesis Research 3

Required Courses (6 credits)

HGEN 662	(3)	Laboratory Research Techniques
HGEN 692	(3)	Human Genetics

Complementary Courses (6 credits)

6 credits chosen from the departmental offerings below or from 500-, 600-, or 700-level courses offered in the Faculties of Medicine or Science:

HGEN 660	(3)	Genetics and Bioethics
HGEN 661	(3)	Population Genetics
HGEN 663	(3)	Beyond the Human Genome
HGEN 670	(3)	Advances in Human Genetics 1
HGEN 671	(3)	Advances in Human Genetics 2
HGEN 690	(3)	Inherited Cancer Syndromes
HGEN 691	(3)	Host Responses to Pathogens
HGEN 693	(3)	Using Bioinformatics Resources
HGEN 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.

11.12.9.6 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.

11.12.9.7 Master of Science (M.Sc.) Human Genetics (Thesis): Bioethics (45 credits)

Thesis Courses (30 credits)

30 credits selected as follows:

HGEN 681	(12)	M.Sc. Thesis Research 2
HGEN 682	(12)	M.Sc. Thesis Research 3
HGEN 683	(6)	M.Sc. Thesis Research 4

Required Courses (12 credits)

12 credits from:

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum
HGEN 662	(3)	Laboratory Research Techniques
HGEN 692	(3)	Human Genetics

11.12.9.8 Master of Science (M.Sc.) Genetic Counselling (Non-Thesis) (48 credits)

Required Courses (48 credits)

HGEN 600D1	(3)	Genetic Counselling Practicum
HGEN 600D2	(3)	Genetic Counselling Practicum
HGEN 601	(3)	Genetic Counselling Principles
HGEN 610D1	(3)	Genetic Counselling: Independent Studies
HGEN 610D2	(3)	Genetic Counselling: Independent Studies
HGEN 617	(3)	Principles of Medical Genetics
HGEN 620	(3)	Introductory Field Work Rotations 1
HGEN 621	(6)	Intro Field Work Rotations 2
HGEN 630D1	(6)	Advanced Field Work Rotations
HGEN 630D2	(6)	Advanced Field Work Rotations
HGEN 640	(3)	Second Year Practicum 1
HGEN 641	(3)	Second Year Practicum 2
PATH 653	(3)	Reading and Conference

11.12.9.9 Doctor of Philosophy (Ph.D.) Human Genetics

Candidates entering Ph.D. 1 must complete at least three years of full-time resident study (six terms). The normal and expected duration of the Ph.D. program is four to five years. A student who has obtained a master's degree at McGill in a related field, or at an approved institution elsewhere, and is proceeding in the same subject toward a Ph.D. degree may, upon the recommendation of the Graduate Training Committee, enter at the Ph.D. 2 level.

Thesis

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

Required Courses (3 credits)

HGEN 692	(3)	Human Genetics
HGEN 701	(0)	Ph.D. Comprehensive Examination

Complementary Courses (15 credits)

(15 credits or 6 credits depending on admission status as described above.)

Courses are to be chosen from the list below and/or from among 500-, 600-, or 700-level courses offered in the Faculties of Medicine and Science.

Genetics and Bioethj1 0 0 1 165.864 298.6mpln94 Tm75 221 Tf-1 0 0 1 70.52 521.801 4908Tm75 Popul5.042 1 0 0 1 2

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.

11.12.9.10 Doctor of Philosophy (Ph.D.) Human Genetics: Bioinformatics

** This program is currently not offered. **

Thesis

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

Required Courses (6 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
HGEN 692	(3)	Human Genetics
HGEN 701	(0)	Ph.D. Comprehensive Examination

Complementary Courses (6 credits)

* Two courses from the following:

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

* Note: Students who enter in Ph.D. 1 will need to tak

and an M.Sc. in Medical Radiation Physics. Facilities are available for students to undertake a Ph.D. in Physics administered through the Department of Physics, or a Ph.D. in Biological and Biomedical Engineering administered through the Departments of Biomedical Engineering and Bioengineering, each with a research emphasis on medical physics. These graduate programs are supervised, funded, and hosted by Medical Physics Unit PIs (principal investigators).

The research interests of Unit members include various topics related to the application of physics methods to medicine:

- 3D and 4D imaging, the development of new imaging modalities, and applications of imaging in radiation therapy;
- radiation physics and computational & experimental dosimetry;
- AI and machine learning applications to medical imaging, radiation therapy, and health informatics;
- applications of nano-sciences to medical imaging and therapy;
- numerical modelling of fundamental interactions of radiation with living cells;
- metabolic and functional imaging using radio-nuclides and MRI;
- applications of radiation biology to therapy and radiation protection.

Graduate students are part of the *Medical Physics Research Training Network* (MPRTN) supported by the *Collaborative Research Education Training Experience* (CREATE) of the Natural Sciences & Engineering Research Council (NSERC).

The M.Sc. and Ph.D. programs in Medical Physics are accredited by the Commission on Accreditation of Medical Physics Education Programs, Inc., sponsored by the *American Association of Physicists in Medicine* (AAPM), the *American College of Radiology* (ACR), the *American Society for Radiation Oncology* (ASTRO), the *Canadian Organization of Medical Physicists* (COMP), and the *Radiological Society of North America* (RSNA).

section 11.12.10.5: Master of Science (M.Sc.) Medical Radiation Physics (Thesis) (52 credits)

This two-year program provides a comprehensive introduction to the academic, research, and practical aspects of physics applied to radiation medicine. Students may go on to careers in clinical service as medical physicists in research-oriented hospital settings after clinical residency training; may consider development careers in industry in radiation therapy, diagnostic radiology, or nuclear medicine or nuclear energy; in governmental organizations as radiation safety experts, etc.; or pursue academic careers in university, industry, or government organizations. Our graduate programs are accredited by *CAMPEP* (Commission for Accreditation of Medical Physics Education Programs). Medical physicists must go through CAMPEP training (M.Sc. or Ph.D., followed by a residency training) to be eligible to sit certification exams. Certification is becoming a mandatory requirement for eligibility to practise in a clinical environment. The McGill M.Sc. program is research oriented, which has the additional advantage that the roads toward a Ph.D., followed by academic, industry, or clinical careers, are wide open. The practical and laboratory sections of the program are conducted in various McGill teaching hospitals.

The program comprises:

1. didactic courses in radiation physics, radiation dosimetry, the physics of nuclear medicine and diagnostic radiology, medical imaging, medical electronics and computing, radiation biology, and radiation hazards and protection;
2. seminars in radiation oncology, diagnostic radiology, and miscellaneous aspects of medical physics, e.g., lasers;
3. laboratory courses in radiation dosimetry and medical imaging;
4. an individual research thesis.

section 11.12.10.6: Graduate Diploma (Gr. Dip.) Medical Radiation Physics (31 credits)

The Medical Physics Unit offers a Graduate Diploma in Medical Radiation Physics which is accredited as a Certificate in Medical Physics by the *CAMPEP* (Commission on Accreditation of Medical Physics Education Programs). It allows eligible individuals to retrain in Medical Physics. Applicants should hold a Ph.D. degree and also a B.Sc. in Honours Physics, Physics Major, or related Physics-oriented science.

11.12.10.3 Medical Physics Admission Requirements and Application Procedures

Emeritus Professors

E.B. Podgorsak; Dipl.Ing.(Ljubljana), M.Sc., Ph.D.(Wisc. Madison), F.C.C.P.M., F.A.A.P.M., D.A.B.M.P., D.A.B.R.

Professors

D. Louis Collins; M.Eng., Ph.D.(McG.), F.C.C.P.M.

J. Seuntjens; M.Sc., Ph.D.(Ghent), F.C.C.P.M., F.A.A.P.M., F.C.O.M.P.

Assistant Professors

S. Devic; B.Sc., M.Sc., Ph.D.(Belgrade), F.C.C.P.M.

S. Enger; Ph.D.(Uppsala)

M.D.C. Evans; B.A.(Qu.), M.Sc.(McG.), F.C.C.P.M.

J. Kildea; Ph.D.(Dublin), M.Sc.(McG.)

I. Levesque; Ph.D.(McG.)

W. Parker; M.Sc.(McG.), F.C.C.P.M.

P. Pater; Ph.D.(McG.)

H.J. Patrocinio; M.Sc.(McG.), F.C.C.P.M., D.A.B.R.

M. Popovic; Ph.D.(McM.)

G. Stroian; M.Sc.(McG.), Ph.D.(Montp.), F.C.C.P.M.

N. Ybarra; B.Sc.(UNAM, Mexico), M.Sc., Ph.D.(Montr.)

Affiliate Members

K. Asiev, H. Bekerat, T. Connell, S. Darvasi, S. Davis, C. Furstoss, A. Gauvin, D. Guillet, G. Hegyi, M. Hobson, 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.(WUSTL), 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.(Nfld.), 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. Madison)

11.12.10.5 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 further52 271.0 1 483.6

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

11.12.10.6 Graduate Diploma (Gr. Dip.) Medical Radiation Physics (31 credits)

section 11.12.11.5: Master of Science (M.Sc.) Experimental Medicine (Thesis) (45 credits)

Applicants for the M.Sc. in Experimental Medicine must hold either an M.D. degree, a B.Sc. degree, or the equivalent. The graduate training offered is wide-ranging and addresses experimental aspects of medicine in such diverse areas as:

- endocrinology;
- hematology;
- cardiology;
- oncology;
- gastroenterology;
- genetics;
- infectious diseases.

This thesis program may lead to careers in industry, or serve as a stepping stone to further graduate studies.

section 11.12.11.6: Master of Science (M.Sc.) Experimental Medicine (Thesis): Bioethics (45 credits)

Applicants for the M.Sc. Bioethics Option program must hold an M.D.; a Nursing degree; a Physical and Occupational Therapy degree; and/or any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis. The objectives of this research-stream program are to allow students to conduct innovative research in relation to a bioethical issue pertinent to health care, and to acquire a working knowledge of bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies.

The curriculum is composed of required courses (6 credits) offered in the Biomedical Ethics Unit, Bioethics courses (6-credit minimum) offered by the base f

11.12.11.3 Medicine, Experimental Admission Requirements and Application Procedures

11.12.11.3.1 Admission Requirements

M.Sc. or Ph.D. in Experimental Medicine

Candidates who hold only an undergraduate degree in the medical and allied sciences (B.Sc. degree or an M.D. degree), must apply to the M.Sc. program, unless they have an undergraduate CGPA of 3.5 or more out of a possible 4.0, in which case they may apply for direct entry into the Ph.D. if they so desire. Candidates who already hold an M.Sc. apply directly to the Ph.D. program.

Admission is based on an evaluation by the Admissions Committee, which looks for evidence of high academic achievement, and on acceptance by a research director. All students must be financially supported either by their supervisor or through studentships or fellowships.

In addition to the documentation currently required by Graduate and Postdoctoral Studies, a letter from the candidate's research director outlining the M.Sc. or Ph.D. project is necessary.

M.Sc. (Bioethics Option)

Admission to the master's program in Bioethics, from the base discipline of Medicine, is limited to students having degrees in Medicine, Nursing, or Physical and Occupational Therapy, as well as any other professional health training degree. Students who do not fit these criteria may be considered for admission on an individual basis.

For requirements, application deadlines, and further information regarding this program, please refer to the Bioethics entry or visit the *Biomedical Ethics Unit website*.

M.Sc. or Ph.D. (Environment Option)

Although the requirements and application deadlines remain the same as the M.Sc. and Ph.D., applicants wishing to apply to the Environment Option must submit additional documents that constitute their application to BOTH the Division of Experimental Medicine and the McGill School of Environment. Further information can be found on the *School of Environment website*.

Students in the M.Sc. in Experimental Medicine may choose to transfer to the Environment Option; interested students should refer to the departmental website or contact the Student Affairs Office.

Graduate Certificate in Regenerative Medicine

Applicants for the Graduate Certificate in Regenerative Medicine must hold a B.Sc. degree. Applicants must have completed with success the following courses: BIOL 200 (Molecular Biology), BIOL 202 (Basic Genetics), CHEM 212 (Introduction to Organic Chemistry), their equivalent, or permission of the coordinator.

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.

11.12.11.3.2 Application Procedures

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

See *University Regulations & Resources* > *Graduate* > *Graduate Admissions and Application Procedures* > *section 1.4.3: Application Procedures* for detailed application procedures. Further information is also available on the *Experimental Medicine website*.

11.12.11.3.2.1 Additional Requirements

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

M.Sc. and Ph.D. in Experimental Medicine

- Personal Statement
- Curriculum Vitae
- Acceptance by a research director (*Confirmation of Supervision* form duly completed)
- Letter from the candidate's research director outlining the M.Sc. or Ph.D. project
- Additional documents (in the cases of the M.Sc. (Bioethics Option) and the M.Sc. or Ph.D. (Environment Option))

11.12.11.3.3 Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Division of Experimental Medicine and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-programIn 1 242.538 r*

All Programs (except Bioethics Option)				
	Application Opening Dates	**Application Deadlines**		
Winter Term:	Feb. 15	Sept. 1	Nov. 1	Nov. 1
Summer Term:	N/A	N/A	N/A	N/A

M.Sc. (Bioethics Option)				
	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 15	April 15	April 15
Winter Term:	N/A	N/A	N/A	N/A
Summer Term:	N/A	N/A	N/A	N/A

11.12.11.4 Medicine, Experimental Faculty

Chair, Department of Medicine

M. Rodger; B.Sc. (McG), M.D., M.Sc. (Ott.), F.R.C.P.(C)

Director, Division of Experimental Medicine

A.-M. Lauzon

Associate Director, Division of Experimental Medicine

E. Fixman

Professors

M. Alaoui-Jamali; D.V.M.(EMI, 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.(Imperial Coll.)

G. Batist; B.Sc.(Col.), M.D.,C.M.(McG.), F.R.C.P.(C)

O. Beauchet; B.Sc.(Jean Monnet), 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)

S. Bernatsky; B.Sc.(Sask), M.D.(Tor.), M.Sc., Ph.D.(McG.)

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.)

I.G. Fantus; B.Sc. M.D.,C.M.(McG.)

M. Friedrich; M.D.(Erlangen-Nuernberg)

A. Fuks; B.Sc., M.D.,C.M.(McG.)

A. Gatignol; M.Sc., Ph.D.(Toulouse III)

J. Genest Jr.; M.D.,C.M.(McG.), F.R.C.P.(C)

Professors

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.)

S. Laporte; B.Sc., M.Sc., Ph.D.(Sher.)

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)

N. Mayo; B.Sc.(Qu.), M.Sc., Ph.D.(McG.)

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.(Thessaloniki)

M. Park; B.Sc., Ph.D.(Glas.)

B.J. Petrof; M.D.(Laval)

L. Pilote; M.D.,C.M.(McG.), M.Sc.(Harv.), Ph.D.(Calif.)

M.N. Pollak; M.D.,C.M.(McG.), F.R.C.P.(C)

P. Ponka; M.D., Ph.D.(Charles Univ.)

W.S. Powell; B.A.(Sask.), Ph.D.(Dal.)

S. Rabbani; M.B.B.S.(KEMU, Pakistan)

D. Radzioch; M.Sc., Ph.D.(Jagiellonian)

S. Richard; B.Sc., Ph.D.(McG.)

J.-P. Routy; B.Sc., M.D., Ph.D.(Aix-Marseille)

D. Sasseville; M.D.(Laval), F.R.C.P.(C)

E. Schiffrin; M.D.(Buenos Aires), Ph.D.(McG.)

E. Schurr; Diplom., Ph.D.(Freiburg)

A. Schwertani; D.V.M.(Baghdad), M.D., Ph.D.(Lond.)

D. Sheppard; M.D.(Tor.), F.R.C.P.(C)

A.D. Sniderman; M.D.(Tor.)

Professors

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

T. Takano; M.D., Ph.D.(Tokyo)

M. Trifiro; B.Sc., M.D.,C.M.(McG.)

C. Tsoukas; B.Sc.(McG.), M.Sc.(Univ. Hawai'i), M.D.(Athens), F.R.C.P.(C)

B.J. Ward; M.D.,C.M.(McG.), M.Sc.(Oxf.), F.R.C.P.(C)

J. White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.)

S. Wing; B.Sc., M.Sc.(McG.)

X.-J. Yang; B.Sc.(Zhejiang), Ph.D.(Shanghai)

Associate Professors

C. Baglole; B.Sc., M.Sc.(PEI), Ph.D.(Calg.)

D. Baran; M.D.,C.M.(McG.), F.R.C.P.(C)

N. Bernard; B.Sc.(McG.), Ph.D.(Duke)

M. Blostein; M.D.,C.M.(McG.)

P. Brassard; B.Sc., M.D.(Montr.), M.Sc.(McG.), F.R.C.P.(C)

L. Chalifour; B.Sc., Ph.D.(Manit.), M.A.(Harv.)

I. Colmegna; M.Sc.(El Salvador)

D. Cournoyer; M.D.(Sher.), F.R.C.P.(C)

K. Dasgupta; B.Sc.(PEI), M.D.,C.M., M.Sc.(McG.)

S. Daskalopoulou; M.D.(Athens)

N. Dayan; B.Sc., M.D.,C.M, M.Sc.(McG.)

N. Dendukuri; M.Sc.(Indian IT), Ph.D.(McG.)

M. Divangahi; B.Sc.(McM.), Ph.D.(McG.)

J.C. Engert; B.A.(Colby), Ph.D.(Boston)

V. Essebag; M.D.,C.M., M.Sc., Ph.D.(McG.), F.R.C.P.(C)

E. Fixman; B.Sc.(Col.), Ph.D.(Johns Hop.)

N.S. Giannetti; M.D.,C.M.(McG.)

B. Gilfix; B.Sc.(Manit.), Ph.D.(UWO), M.D.,C.M.(McG.), F.R.C.PSher

Associate Members, McGill

B. Abdulkarim, H. Abenhaim, M. Basik, M. Ben-Shoshan, M. Bouchard, P. Brodt, K. Brown, S. Burgos, F. Carnevale, S. Chevalier, H. Clarke, T. Coderre, S. del Rincon, L. Diatchenko, T. Duchaine, D. Dufort, C. Ells, K. Eppert, M. Fabian, L. Ferri, P. Friesen, C. Goodyer, P. Goodyer, W. Gotlieb, C. Goudie, I. Gupta, A. Haidar, T. Hebert, M. Hunt, N. Jabado, A. Jahani-Asl, D. Juncker, M. Kaartinen, A. Khoutorsky, J. Kimmelman, N. King, A. Koromilas, D. Labbé, L. Lands, J. Lapointe, B.W.Y. Lo, C. Loiselle, M.E. Macdonald, C. Mandato, K. Mann, M. O. Martel, P. Martineau, B. Mazer, L. McCaffrey, C. McCusker, T. Muanza, M. Nagano, C. O'Flaherty, A. Orthwein, A. Philip, C. Piccirillo, C. Polychronakos, S. Prakash, D.F. Quail, R. Rajan, J. Rak, G. Rouleau,

EXMD 690	(3)	Master's Thesis Research 1
EXMD 692	(9)	Master's Thesis Research 3
EXMD 693	(12)	Master's Thesis Research 4
EXMD 694	(12)	Master's Thesis Research 5

Complementary Courses (9 credits)

9 credits at the 500 level or higher.

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.

11.12.11.6 Master of Science (M.Sc.) Experimental Medicine (Thesis): Bioethics (45 credits)

Thesis Courses (24 credits)

BIOE 690	(3)	M.Sc. Thesis Literature Survey
BIOE 691	(3)	M.Sc. Thesis Research Proposal
BIOE 692	(6)	M.Sc. Thesis Research Progress Report
BIOE 693	(12)	M.Sc. Thesis

Required Courses (6 credits)

BIOE 680	(3)	Bioethical Theory
BIOE 681	(3)	Bioethics Practicum

Complementary Courses (15 credits)

3 credits, one of the following:

BIOE 682	(3)	Medical Basis of Bioethics
CMPL 642	(3)	Law and Health Care
PHIL 643	(3)	Seminar: Medical Ethics
RELG 571	(3)	Ethics, Medicine and Religion

12 credits, four 3-credit BIOE or EXMD graduate courses (500, 600, or 700 level) chosen in consultation with the Supervisor.

11.12.11.7 Master of Science (M.Sc.) Experimental Medicine (Thesis): Environment (45 credits)

The M.Sc. in Experimental Medicine; Environment is a research program offered in collaboration with the School of Environment. As a complement to the unit's expertise, the program considers how various dimenrsesy (5cienctific stocial,le

Complementary Courses (15 credits)

3-6 credits from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

9 credits of courses at the 500-level or higher. 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*.

* Students must get approval of GPD for courses at the 500 level or higher from other Allied Health Sciences.

11.12.11.8 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.

EXMD 701D1	(0)	Comprehensive Oral Examination
EXMD 701D2	(0)	Comprehensive Oral Examination

Complementary Courses (18 or 24 credits)

3-6 credits from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits from:

ENVR 585	(3)	Readings in Environment 2
		Ci

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, from other Allied Health Sciences departments may be accepted.

11.12.12 Medicine, Family

11.12.12.1 Location

Department of Family Medicine
5858 Côte-des-Neiges Road, 3rd Floor
Montreal QC H3S 1Z1
Telephone: 514-399-9109
Fax: 514-398-4202
Email: *graduateprograms.fammed@mcgill.ca*
Website: *www.mcgill.ca/familymed/education/graduate-programs*

11.12.12.2 About Family Medicine

The McGill Department of Family Medicine is home to an exceptional community of primary health care professionals, researchers, students, and support staff, whose mission is to contribute to the health of the population and the sustainability of the health care system in Quebec, in Canada, and internationally by:

- training medical students, residents, and other health care professionals to become committed to primary care, contributing to accessibility, continuity, coordination, accountability, patient-centredness, and health promotion and prevention;
- promoting innovation in family medicine and primary health care delivery and practice;
- developing research and scholarly activity to contribute to the academic discipline;
- promoting curriculum innovation and education research;
- engaging in international and global health activities;
- developing and engaging in public policy discussions.

We understand that research in family medicine and primary care is essential to the achievement of excellence in health care delivery, patient care, and education. Our research division is composed of Ph.D. and clinical researchers who dedicate their efforts to producing and translating knowledge that advances the discipline, practice, and teaching of family medicine and primary care while supporting the scholarly activities of clinicians and residents in the Department. We have developed unique and rigorous research programs for **M.Sc.** and **Ph.D.** students that advance academic excellence in family medicine and primary health care through patient-oriented, community-based research with innovative methodologies and participatory approaches.

section 11.12.12.5: 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 11.12.12.6: 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

to be chosen for an intervie

11.12.12.4 Medicine, Family Faculty

Chair

Marion Dove

Graduate Program Directors

Tibor Schuster (Ph.D. program)

Isabelle Vedel (M.Sc. program)

Professors

Neil Andersson; M.D.(Cape Town), M.Sc., M.Phil.(Lond.), Ph.D.(City, UK), M.F.P.H.(UK)

Gillian Bartlett; B.A., M.Sc., Ph.D.(McG.)

Howard Bergman; B.Sc., M.D.,C.M.(McG.), C.C.F.P, F.C.F.P.

Jeannie Haggerty; B.Sc.(S. Fraser), M.Sc., Ph.D.(McG.)

Ann Macaulay; M.B., Ch.B.(St. And.), C.C.F.P.

Pierre Pluye; M.D.(Toulouse III), M.Sc., Ph.D.(Montr.)

Charo Rodriguez; M.D.(Alicante), M.P.H.(València), Ph.D.(Montr.)

Mark Yaffe; B.Sc., M.D.,C.M.(McG.), M.Cl.Sc.(UWO), C.C.F.P., F.C.F.P.

Associate Professors

Eugene Bereza; B.A., M.D.,C.M.(McG.), C.C.F.P.

Anne Cockcroft; M.B., B.S., M.D.(Lond.), F.R.C.P., F.F.O.M., D.I.H.(UK)

Perle Feldman M.D.,C.M.(McG) C.C.F.P., F.C.F.P., M.H.P.E.

Roland Grad; M.D.,C.M.(McG.), M.Sc.(McM.), C.C.F.P.

Ellen Rosenberg; B.A.(Smith), M.D.,C.M.(McG.), C.C.F.P.

Ian Shrier; M.D.,C.M., Ph.D.(McG.)

Pierre-Paul Tellier; M.D.,C.M.(McG.)

Isabelle Vedel; M.D.(Paris XI), D.E.A.(Sciences Po), Ph.D.(URCA, France)

Mark Ware; B.A.(Qu.), M.B., B.S.(UWI), M.Sc.(Lond.)

Assistant Professors

Alayne Adams; M.Sc.(Lond.), Ph.D.(Lond.)

Anne Andermann; B.Sc., M.D.,C.M.(McG.), M.Phil.(Camb.), D.Phil.(Oxf.), C.C.F.P., F.R.C.P.(C), F.F.P.H.(UK)

Tracie Barnett; Ph.D.(McG.)

Yves Bergevin; B.Sc.(Coll. Stanislas, Montreal), M.D.,C.M., M.Sc.(McG.), C.C.F.P., F.R.C.P.(C), F.C.F.P.

Alexandra De Pokomandy; M.D.,C.M., M.Sc.(McG.)

Bertrand Lebouche; M.D., M.A., Ph.D.(Laval)

Peter Nugus; M.A., M.Ed., Ph.D.(New South Wales)

Samira Rahimi, Eng.(Tabriz), Ph.D.(Laval), B.Eng.(Cornell)

Kathleen Rice, M.A.(C'dia), Ph.D.(Tor.), MA.(C'dia)

Tibor Schuster; B.Sc., M.Sc.(LMU Munich), 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)

Associate Members

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 (Ph

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)	Introduction Analytical Decision-Making in Healthcare
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
		Ev

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

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.

11.12.13 Microbiology and Immunology

11.12.13.1 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*

11.12.13.2 About Microbiology and Immunology

The Department offers graduate programs leading to the degrees of **M.Sc.** and **Ph.D.**. Each program is tailored to fit the needs and backgrounds of individual students. The graduate program is designed to offer students state-of-the-art training, concentrating on four key areas of research:

- cellular and molecular immunology;
- microbial physiology and genetics;
- molecular biology of viruses;
- 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 11.12.13.5: Master of Science (M.Sc.) Microbiology and Immunology (Thesis) (45 credits)

The primary goal of this program is to provide students with unique opportunities to learn experimental designs and fundamental research techniques, and objectively synthesize information from scientific literature. These tools enable the students to focus on major research topics offered by the Department: molecular microbiology, mycology, microbial physiology, virology, genetics, immunology, drug design, and aspects of host-parasite relationships. Each M.Sc. student chooses their preferred major research area and research supervisor. Following an interview, the student is presented with a research topic and offered a studentship (amounts vary). Each student must register for our graduate courses (two seminars, two reading and conference courses, and three current topics). If pertinent to the student's research program, the research adviser may advise the student to take additional courses.

Most of our students, after one year, are proficient researchers, and some first authors of a research publication. M.Sc. students may fast-track to the Ph.D. program after three terms of residency. The remaining students advance their microbiology background by opting to enter into medicine, epidemiology, biotechnology, or pharmaceutical disciplines.

11.12.13.3 Microbiology and Immunology Admission Requirements and Application Procedures

11.12.13.3.1 Admission Requirements

Master's

Candidates are required to hold a B.Sc. degree in microbiology and immunology, biology, biochemistry, or another related discipline; those with the M.D., D.D.S., or D.V.M. degrees are also eligible to apply. The minimum 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.

11.12.13.3.2 Application Procedures

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

See *University Re*

Professors

J. Archambault; Ph.D.(Tor.)

A. Berghuis; B.Sc., M.Sc.(Groningen), Ph.D.(Br. Col.)

S. Gruenheid; B.Sc.(Br. Col.), Ph.D.(McG.)

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.(CUA)

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)

G.T. Marczynski; B.Sc., Ph.D.(Ill.)

S. Sagan; B.Sc.(McG.), Ph.D.(Ott.)

Assistant Professors

I. King; B.A.(Ohio), M.Sc.(Pitt.), Ph.D.(Roch.)

C. Maurice; M.S., Ph.D.(Montpellier)

M. Richer; B.Sc.(McG.), M.Sc.(Montr.), Ph.D.(Br. Col.)

Associate Members

Dentistry: E. Emami, S. Tran

Epidemiology and Infectious Diseases: M. Behr, A. Dascal, V. Loo

Genetics: E. Schurr

Immunology, Autoimmunity, Host Defense: J. Antel, M. Burnier, I. Colmegna, P. Gros, A. Kristof, J. Mandl, A. Orthwein, J. Rauch, M. Saleh, J. Spicer, C. Tsoukas, S. Vidal

Immunology and Parasitology: B. Brenner, C.T. Costiniuk, M. Ndao, P. Rohrbach, B. Ward, J. Zhang

Microbiology: D. Cuong Vinh, M. Divangahi, C. Liang, D. Nguyen, M. Reed

Molecular Biology: N. Cermakian, S. Hussain, A. Jardim, D. Langlais, A. Mouland, K. Pantopoulos, M. Tremblay, B. Turcotte, J. Xia

Virology: A. Gatignol, A.E. Koromilas, R. Lin, T. Mesplede, J.Teodoro

Immunology and Virology: M-A. Jenabian

Adjunct Pr

Adjunct Professors

MIMM 701	(0)	Comprehensive Examination-Ph.D. Candidate
MIMM 713	(3)	Graduate Seminars 3

Complementary Courses (9 credits)

11.12.14.3 Occupational Health Admission Requirements and Application Procedures

11.12.14.3.1 Admission Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone), must submit documented proof of competency in oral and written English by appropriate exams, e.g.,

- Personal Statement

Ph.D. Program

- Curriculum Vitae
- Personal Statement
- Research Proposal

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 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	Apr. 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.

Note: Applications for Winter/Summer term admission will not be considered, with the exception of admission as Special Students in the Winter term.

11.12.14.4 Occupational Health Faculty

Please see *section 11.12.6.3: Epidemiology, Biostatistics and Occupational Health Faculty*.

11.12.14.5 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; Non-Thesis, appropriate for graduates from engineering and basic sciences, physicians, and nurses. Occupational health training includes evaluation of work environments and reduction or elimination of work hazards using prevention and control.

Research Project (15 credits)

OCCH 699	(15)	Project Occupational Health and Safety

Required Courses (31 credits)

EPIB 507	(3)	Biostats for Health Sciences
EPIB 601	(4)	Fundamentals of Epidemiology
OCCH 602	(3)	Occupational Health Practice
OCCH 604	(3)	Monitoring Occupational Environment
OCCH 605	(6)	Physical Health Hazards
OCCH 608	(3)	Biological Hazards
OCCH 612	(3)	Principles of Toxicology
OCCH 615	(3)	Occupational Safety Practice
OCCH 616	(3)	Occupational Hygiene

11.12.14.6 Master of Science, Applied (M.Sc.A.) Occupational Health (Non-Thesis) (Distance) (45 credits)

This program is currently not accepting applicants.

Research Project (15 credits)

OCCH 699	(15)	Project Occupational Health and Safety

Required Courses (30 credits)

Note: Students must pass the Master's Integrative Examination (OCCH 600) before writing their Project.

Montreal QC H4A 3T2
Website: *www.medicine.mcgill.ca/oncology*

11.12.15.2 Grad. Dip. in Oncology

The Graduate Diploma in Oncology provides students the opportunity to gain exposure to the principles and practice of oncology as well as its research domains, while exploring in more detail one of four areas of focus:

- population and global cancer control
- psychosocial oncology/palliative care
- clinical cancer research
- cancer care services and quality.

11.12.15.3 Oncology Faculty

Chair

E. Franco

Professors

B. Abdulkarim, M. Alaoui-Jamali, A. Aprikian, M. Basik, G. Batist, N. Beauchemin, C. Borchers, P. Brodt, R. Cohen, L. Ferri, W. Foulkes, E. Franco, C. Freeman, V. Giguère, L. Gilbert, P. Gold, W. Gotlieb, C. Greenwood, V. Hirsh, T. Hutchinson, A. Koromilas, C. Loiselle, R. Margolese, S. Meterissian, W. Miller, A. Nepveu, L. Panasci, M. Park, J. Pelletier, M. Pollak, S. Richard, N. Sadeghi, J.P. Seuntjens, C. Shustik, L. Souhami, A. Spatz, M. Thirlwell, M. Tremblay, T. Vuong

Associate Professors

J. Agulnik, T. Alcindor, J. Asselah, L. Azoulay, S. Caplan, P. Chaudhury, D. Cournoyer, S. Devic, M. Fabian, S.L. Faria, M. Henry, M. Hier, T. Hijal, I. Hings, N. Johnson, M. Katz, P. Kavan, P. Laneuville, A. Langleben, B. Lapointe, S. Lau, A.S. Liberman, A. Loutfi, K. Mann, M. Martin, L. McCaffrey, A. Meguerditchian, E.J. Mitmaker, M. T. Niazi, A. Peterson, J. Prchal, R. Rajan, Z. Rosberger, G. Shenouda, S. Solymoss, I. Topisirovic, A. Towers, J. Ursini-Siegel, A. Vigano, M. Witcher, J.H. Wu, J. Zidulka, G. Zogopoulos

Assistant Professors

S. Abbasinejad Enger, S. Abish, J. Alfieri, R. Aloyz, D. Anderson, S. Aubin, M. Azoulay, B. Bahoric, G. Blake, M. Borod, N. Bouganim, J. Burnier, V. Cohen, F. Cury, R. Dalfen, M. David, J.A. Davidson, S. del Rincon, M. Duclos, M. Evans, C. Ferrario, J. Friedmann, A. Jahani-Asl, K. Jardon, J. Kildea, N. Kopek, C. Lambert, H. Laryea, M. Lecavalier, C. Legler, I. Levesque, D. Melnychuk, C. Mihalcioiu, T. Muanza, A. Orthwein, S. Owen, V. Panet-Raymond, W. Parker, F. Patenaude, P. Pater, H. Patrocinio, C. Pepe, E. Poon, M. Popovic, S. Sirhan, S. Skamene, B. Stein, D. Stern, G. Stroian, K. Sultanem, F. Tremblay, M. Vanhuyse, T. Vanounou, C.A. Vasilevsky, P. Watson, A. Wong Wong Keet, N. Ybarra

Lecturers

R. Archambault, K. Asiev, H. Bekerat, A. Carbonneau, P. Charghi, S. Ferland, R. Fisher, D. Frechette, J. Goudreault, D. Guillet, G. Hegyi, G. Huni, A. Khadoury, L.H. Liang, C. MacKinnon, P. Michel, E. Neamt, R. Ruo, M. Serban, N. Tomic

Associate Members

P. Allison, J. Arseneau, G. Bartlett-Esquilant, H. Bergman, J-F. Boileau, M. Burnier, S. Chevalier, J-P. Farmer, J. Feine, D. Fleiszer, R. Forghani, P. Galiatsatos, Z-H. Gao, D. Ginsberg, M. Goldberg, C. Goudie, P. Gros, J. Hall, N. Jabado, T. Jagoe, S. Jordan, A.C. Korner, K. Lawlor, M.E. Macdonald, C. Maheu, R. Michel, A. Mlynarek, L. Musgrave, B. Nicolau, L. Ofiara, M. Paliouras, R. Payne, S. Rabbani, J. Rak, M. Sebag, B. Shieh, P. Siegel, R. Tabah, S. Tanguay, P. Tonin, G. Tradounsky, A. Tsimicalis, R. Turcotte, D. Wan-Chow-Wah, B. Wang

Adjunct Professors

R-K. Agnihotram, A.E. Al Moustafa, N. Blais, A. Burchell, M. Chasen, F. Coutlee, F. DeBlois, B. Gagnon, S. Mahmud, M-H. Mayrand, B. Moftah, G.B. Pike, S. Ratnam, J. Renaud, B. Rivera, D. Roberge, A. Sarfehnia, G. Simos, E. Soisson, T. Sullivan, H. Trottier

11.12.15.4 Graduate Diploma (Grad. Dip.) Oncology (30 credits)

The Graduate Diploma in Oncology provides exposure to the entire spectrum of principles and practice in all fields of oncology as well as its research domains while allowing exploration in more detail of a specific area of focus through courses and a practicum. The areas of focus are: population and global cancer control, psychosocial oncology/palliative care, clinical cancer research, or cancer care services and quality.

Required Courses (12 Credits)

ONCO 610D1	(3)	Fundamentals of Oncology and Cancer Research

ONCO 610D2	(3)	Fundamentals of Oncology and Cancer Research
ONCO 620	(3)	Best Practices in Biomedical Research
ONCO 630	(3)	Oncology Practicum

Complementary Courses (12 Credits)

6 credits from:

EPIB 671	(3)	Cancer Epidemiology and Prevention
PPHS 612D1	(1.5)	Principles of Public Health Practice
PPHS 612D2	(1.5)	Principles of Public Health Practice

OR

NUR2 783	(3)	Psychosocial Oncology Research
ONCO 635	(3)	Qualitative and Psychosocial Health Research

OR

EXMD 617	(1)	Workshop in Clinical Trials 1
EXMD 618	(1)	Workshop in Clinical Trials 2
EXMD 619	(1)	Workshop: Clinical Trials 3
ONCO 615	(3)	Principles and Practice of Clinical Trials

OR

ONCO 625	(3)	Quality Improvement Principles and Methods
PPHS 528	(3)	Economic Evaluation of Health Programs

3 credits from:

EPIB 507	(3)	Biostats for Health Sciences
EPIB 521	(3)	Regression Analysis for Health Sciences
EXMD 634	(3)	Quantitative Research Methods
FMED 505	(3)	Epidemiology and Data Analysis in Primary Care 1

OR

3 credits of a research design or statistics course at the 500 level or higher chosen in consultation with the student's mentor and approved by the Program Committee and the Graduate Program Director. Students who already have a very strong background in statistics may be exempt from taking a statistics course and would choose another 3-credit course. This must be approved by the Program Committee and the Graduate Program Director.

3 credits from:

EPIB 671	(3)	Cancer Epidemiology and Prevention
EXMD 614	(3)	Environmental Carcinogenesis
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 640	(3)	Experimental Medicine Topic 1

EXSU 505	(3)	Trends in Precision Oncology
FMED 619	(3)	Program Management in Global Health & Primary Health Care
HGEN 690	(3)	Inherited Cancer Syndromes
NUR2 705	(3)	Palliative Care
ONCO 615	(3)	Principles and Practice of Clinical Trials
ONCO 625	(3)	Quality Improvement Principles and Methods
POTH 637	(3)	Cancer Rehabilitation
PPHS 528	(3)	Economic Evaluation of Health Programs
PSYC 507	(3)	Emotions, Stress, and Illness
SWRK 668	(3)	Living with Illness, Loss and Bereavement

The course will be chosen in consultation with the student's mentor and must be approved by the Program Committee and the Graduate Program Director.

Elective Courses (6 credits)

6 credits at the 500 level or higher can be chosen from the course list above or from other courses.

11.12.16.3.2 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.

Prospective students should contact research supervisors individually.

11.12.16.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Personal Statement
- Acceptance by a research supervisor

11.12.16.3.3 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 Department of Otolaryngology and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at *www.mcgill.ca/gps/contact/graduate-program*.

	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	March 15	March 15
Winter Term:	Feb. 15	Sept. 10	Sept. 15	Sept. 15
Summer Term:	May 15	Jan. 15	Jan. 15	Jan. 15

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

11.12.16.4 Otolaryngology – Head and Neck Surgery Faculty

Chair

N. Sadeghi

Graduate Program Director and Director of Research

B. Segal

Director of Residency Training Program

K. Richardson

Director of Head and Neck Oncology Program

N. Sadeghi

Director of Undergraduate Medical Education

J. Young

Director of Fellowship Training

J. Rappaport

Emeritus Professor

A. Katsarkas; M.D.(Thess.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

Professors

S. Daniel; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)

S. Frenkiel; B.Sc., M.D.,C.M.(McG.), F.R.C.S.(C)

K. Kost; M.D.,C.M.(McG.), F.R.C.S.(C)

Professors

N. Sadeghi; M.D.,C.M.(McG.), F.R.C.S.(C)

M.D. Schloss; M.D.(Br. Col.), F.R.C.S.(C)

Associate Professors

M. Desrosiers; M.D.(Montr.), F.R.C.S.(C)

N. Fanous; M.B., B.CH.(Cairo), F.R.C.S.(C)

W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.)

M. Hier; M.D.,C.M.(McG.), F.R.C.S.(C)

J. Manoukian; M.B., Ch.B.(Alex.), F.R.C.S.(C)

L. HP. Nguyen; M.D.,C.M.(McG.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

W.H. Novick; M.D.(Qu.), F.R.C.S.(C)

R. Payne; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)

J. Rappaport; M.D.(Dal.), F.R.C.S.(C)

M. Samaha; M.D.(Qu.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

B. Segal; B.Sc., B.Eng., M.Eng., Ph.D.(McG.)

M. Tewfik; M.D.,C.M., M.Sc.(Otol.)(McG.), F.R.C.S.(C)

A.G. Zeitouni; M.D.(Sher.), M.Sc.(Otol.)(McG.), F.R.C.S.(C)

Assistant Professors

F. Chagnon; M.D.,C.M.(McG.), F.R.C.S.(C)

M. Duval; M.D.(Ott.), C.M., M.Sc.(Epid.)(Lond.), F

Lecturers

C. Boucher; M.D.

S. Bouhabel; M.D.

R. Caouette; M.D.

M. Campagna-Vaillancourt; M.D.

A. Finesilver; M.D.,C.M.(McG.), F.R.C.S.(C)

O. Houle; M.D.

V. Iordanescu; M.D.

M. Lalonde; M.D.

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)

11.12.16.5 Master of Science (M.Sc.) Otolaryngology (Thesis) (45 credits)

Thesis Courses (30 credits)

OTOL 690	(3)	M.Sc. Thesis 1
OTOL 691	(3)	M.Sc. Thesis 2
OTOL 692	(6)	M.Sc. Thesis 3
OTOL 693	(6)	M.Sc. Thesis 4
OTOL 694	(12)	M.Sc. Thesis 5

Required Courses (12 credits)

When appropriate, courses OTOL 602, OTOL 612, OTOL 603, or OTOL 613 may be replaced by other Basic Science or Clinical (500, 600, or 700 level) courses of relevance to Otolaryngology, as recommended or approved by the Department.

OTOL 602	(3)	Physiology, Histopathology and Clinical Otolaryngology 1
OTOL 603	(3)	Advanced Scientific Principles - Otolaryngology 1
OTOL 612nT5dv	(3)	Physiology, Histopathology and Clinical Otolaryngology 2

Applicants to graduate studies whose native language 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. These applicants are usually required to take the *GRE* in order to properly gn institutio) Office.

Assistant Professors

S.-M. Jung; M.D.(Chonnam)

Y. Kanber; M.D.(Marmara)

J. Lavoie; B.Sc., M.Sc., Ph.D.(Laval)

H.R. Lopez-Valle; M.D.(UASLP)

A.T. Marcus; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C)

V.-H. Nguyen; M.D.(Montr.), F.R.C.P.(C)

A. Omeroglu; M.D.(Istanbul U)

G. Omeroglu-Altinel; M.D.(Istanbul U)

F. Razaghi; M.D.(SBUMS)

S. Sabri; Ph.D.(Paris VII)

S. Sandhu; M.B.,B.S.(N. Bengal Med.)

H. Srolovitz; B.Sc.(Pitt), M.D.(Basel)

J. St. Cyr; M.D.,C.M.(McG.), F.R.C.P.(C)

T.N. Ton Nu; M.D.(Pham Ngoc Thach), F.R.C.P.(C)

H. Wang; M.D.(AFMU, China), F.R.C.P.(C)

Visiting Professor

A.S.M. Noman; B.Sc., M.Sc.(Rajshahi), Ph.D.(Aichi Med.)

Associate Members

B. S. Abdulkarim; B.Sc.(Aix-Marseille), M.Sc.(Paris V), M.D., Ph.D.(Paris XI), F.R.C.P.(C)

C.J. Baglole; B.Sc., M.Sc.(PEI), Ph.D.(Calg.)

N. Braverman, B.Sc.(Cornell), M.S.(Sarah Lawrence), M.D.(Tulane), F.A.C.M.G.

S. Cellot, M.D., Ph.D.(Montr.)

P.J. Chauvin; M.Sc.(UWO), D.D.S.(McG.)

M. Divangahi; Ph.D.(McG.)

S.N.A. Hussain; M.D.(Baghdad), Ph.D.(McG.)

G.O.R. Arena; M.D.(Catania), F.R.C.S.(C)

N. Jabado; M.D.(Paris VI), Ph.D.(INSERM, Paris)

W. Kassouf; M.D.,C.M.(McG.), F.R.C.S.(C)

P. Metrakos; M.D.,C.M.(McG.), F.R.C.S.(C)

V. Papadopoulos; Ph.D.(Paris VI)

M. Park; Ph.D.(Glas.), F.R.S.C.

A. Schwertani; M.D., Ph.D.(Lond.)

11.12.17.5 Master of Science (M.Sc.) Pathology (Thesis) (45 credits)

All stuits)

Required Courses (6 credits)

(3) Research Seminar 1

- neuropharmacology;
- reproductive pharmacology;
- endocrine pharmacology;
- receptor pharmacology;
- cardiovascular pharmacology;
- cancer;
- dev

See *University Regulations & Resour*

Professors

M. Szyf; Ph.D.(Hebrew)

J. Trasler; M.D.,C.M., Ph.D.(McG.)

Associate Professors

The M.S[illegible] metho[illegible] conduc[illegible] esearch project, anal[illegible]ta, an[illegible]g a thesis. It involves training in research [illegible]nd[illegible]s, criti[illegible]lyzing scientific liter[illegible]d dev[illegible]nd cond[illegible] project f[illegible]

Thesis [illegible]es (30 credits)

PHAR [illegible]	(3)	T[illegible]
PHAR [illegible]	(6)	[illegible]on 1
PHAR [illegible]	(9)	[illegible]on 2
PHAR [illegible]	[illegible]	[illegible]is [illegible]on 3

Require[illegible]rses (15 credits)

PHAR [illegible]	(6)	Researc[illegible]ar
PHAR [illegible]	(3)	Principles of Pharmac[illegible]
PHAR [illegible]	(1)	Research Professional[illegible] Pharmacologists
PHAR [illegible]	(2)	Scientific Communica[illegible] Pharmacologists
PHAR 712	(3)	Statistics for Pharmacologists

Revision, April 2020. End of revision.

11.12.18.6 Master of Science (M.Sc.) Pharmacology (Thesis): Environmental Health Sciences (45 credits)

Revision, April 2020. Start of revision.

The M.Sc. in Pharmacology; Environmental Health Sciences program is designed to train professionals for advanced basic research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research, including a broad environmental perspective, exposure sciences, hazao88j1 0 0 1 422.216 431.022 distinct 7 0 1 67.52 480.504 Tm(posure sciences, hazao88j1 l7nces, hazao88dAR

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

PHAR 602	(3)	Principles of Pharmacology
PHAR 609	(1)	Research Professionalism for Pharmacologists
PHAR 610	(2)	Scientific Communication for Pharmacologists
PHAR 701	(0)	Ph.D. Comprehensive Exam
PHAR 712	(3)	Statistics for Pharmacologists

Complementary Courses (3 credits)

3 credits from the following:

PHAR 702	(3)	Topics in Pharmacology 1
PHAR 703	(3)	Topics in Pharmacology 2
PHAR 704	(3)	Topics in Pharmacology 3
PHAR 705	(3)	Topics in Pharmacology 4
PHAR 706	(3)	Topics in Pharmacology 5
PHAR 707	(3)	Topics in Pharmacology 6

or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Revision, April 2020. End of revision.

11.12.18.8 Doctor of Philosophy (Ph.D.) Pharmacology: Environmental Health Sciences

Revision, April 2020. Start of revision.

The Ph.D. in Pharmacology; Environmental Health Sciences program is designed to train professionals for advanced basic research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research, including a broad environmental perspective, exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

Thesis

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

PHAR 703	(3)	Topics in Pharmacology 2
PHAR 704	(3)	Topics in Pharmacology 3
PHAR 705	(3)	Topics in Pharmacology 4
PHAR 706	(3)	Topics in Pharmacology 5
PHAR 707	(3)	Topics in Pharmacology 6

or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Revision, April 2020. End of revision.

11.12.19 Physiology

11.12.19.1 Location

Department of Pht of PhDeade Sirt of Ph

section 11.12.19.8: Doctor of Philosophy (Ph.D.) Physiology

The doctoral program is intended for students from a strong academic background wishing to pursue research-intensive careers in academia, industry, or 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 11.12.19.9: 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 11.12.19.10: Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

The Chemical Biology option is designed to expose students to aspects of drug design and development, as well as their application to the study of physiological and pathophysiological processes. In addition to thesis work with appropriate mentors, students will participate in lectures, seminar courses, and thematic workshops -- all of which are designed to familiarize students with the current state of the field. This interdisciplinary approach will develop researchers interested in academic careers or in the pharmaceutical and biotechnology industries.

11.12.19.3 Physiology Admission Requirements and Application Procedures

11.12.19.3.1 Admission Requirements

Admission to the graduate program is based on an evaluation by the Graduate Student Admissions and Advisory Committee (GSAAC), and on being accepted by a research supervisor. Final acceptance is contingent upon approval of the recommendation of the applicant by Enrolment Services, from whom official notification will be received.

Candidates for the M.Sc. degree must hold a B.Sc. degree or its equivalent. Candidates who have completed an M.Sc. may be admitted directly to the Ph.D. program. M.Sc. students interested in a Ph.D. may fast track to the Ph.D. program after 12–18 months. 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 no longer required.

Language Requirements

Test of English as a Foreign Language (*TOEFL*): minimum score of 86 on the Internet-based test with each component score not less than 20 OR IELTS (International English Language Testing System) with an overall band of 6.5 or greater. 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

Associate Professors

Claire Brown; B.Sc.(St. Mary's), Ph.D.(UWO)

Gil Bub; B.Sc., Ph.D.(McG.)

Erik Cook; B.Sc.E.E., M.E.E.(Rice), Ph.D.(Baylor Coll.)

Mladen Glavinovic; B.Sc.(Zagreb), M.Sc.(Tor.), Ph.D.(McG.)

11.12.19.5 Master of Science (M.Sc.) Physiology (Thesis) (45 credits)

Thesis Courses (27 credits)

PHGY 621	(12)	Thesis 1
PHGY 622	(12)	Thesis 2
PHGY 623	(3)	M.Sc. Final Seminar

Required Courses (12 credits)

PHGY 601	(1)	M.Sc. Proposal Seminar
PHGY 602	(2)	Literature Search and Research Proposal
PHGY 604	(0)	Responsible Conduct in Research
PHGY 607	(3)	Laboratory Research 1
PHGY 608	(3)	Laboratory Research 2
PHGY 620	(3)	Progress in Research

Elective Courses (6 credits)

Students must select 6 approved credits in Physiology or Science at the 500 level or above.

Master of Science (M.Sc.) Physiology (Thesis): Biom(ses (27 credits)0a6/6om6 TcC26 Tm(4o/9 TcC26 Tm(4o/9 TcC26 Tm(4o/9 T0s.52

11.12.19.7 Master of Science (M.Sc.) Physiology (Thesis): Chemical Biology (45 credits)

** This program is currently not offered. **

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis Courses (27 credits)

PHGY 621	(12)	Thesis 1
PHGY 622	(12)	Thesis 2
PHGY 623	(3)	M.Sc. Final Seminar

Required Courses (12 credits)

PHGY 601	(1)	M.Sc. Proposal Seminar
PHGY 602	(2)	Literature Search and Research Proposal
PHGY 604	(0)	Responsible Conduct in Research
PHGY 607	(3)	Laboratory Research 1
PHGY 608	(3)	Laboratory Research 2
PHGY 620	(3)	Progress in Research

Complementary Courses (6 credits)

3 credits from the following Chemical Biology seminars:

BIOC 610	(1)	Seminars in Chemical Biology 1
BIOC 611	(1)	Seminars in Chemical Biology 3
BIOC 689	(1)	Seminars in Chemical Biology 2
BIOC 690	(1)	Seminars in Chemical Biology 4

3 credits from the following:

CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
PHAR 503	(3)	Drug Discovery and Development 1

11.12.19.8 Doctor of Philosophy (Ph.D.) Physiology

Thesis

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

Required Courses (8 credits)

PHGY 604	(0)	Responsible Conduct in Research
PHGY 701	(0)	Ph.D. Comprehensive Examination
PHGY 703	(1)	Ph.D. Progress Seminar 1
PHGY 704	(1)	Ph.D. Progress Seminar 2

PHGY 720	(1)	Ph.D. Seminar Course 1
PHGY 721	(1)	Ph.D. Seminar Course 2
PHGY 722	(1)	Ph.D. Seminar Course 3
PHGY 723	(1)	Ph.D. Seminar Course 4
PHGY 724	(1)	Ph.D. Seminar Course 5
PHGY 725	(1)	Ph.D. Seminar Course 6

Elective Courses (9 credits)

9 credits of Physiology or Science at the 500 level or above, in consultation with the GSAAC and the candidate's supervisor.

11.12.19.9 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

11.12.19.10 Doctor of Philosophy (Ph.D.) Physiology: Chemical Biology

** This program is currently not offered. **

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:

CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
PHAR 503	(3)	Drug Discovery and Development 1

11.12.20 Psychiatry

11.12.20.1 Location

Department of Psychiatry
1033 Pine Avenue West
Montreal QC H3A 1A1
Canada
Telephone: 514-398-4176
Fax: 514-398-4370
Email: *graduate.psychiatry@mcgill.ca*
Website: *www.mcgill.ca/psychiatry*

11.12.20.2 About Psychiatry

McGill Univ

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

11.12.20.4 Psychiatry Faculty

Chair

G. Turecki

Director of Graduate Program

N. Mechawar

Emeritus Professors

F. Abbott; B.Sc.(McM.), M.Sc., Ph.D.(McG.)

L. Annable; B.Sc.(Liv.), Dipl. in Stat.(Edin.)

M.K. Birmingham; B.A.(Bennington), M.Sc., Ph.D.(McG.)

F. Engelsmann; Ph.D.(Charles)

N. Frasure-Smith; B.A. Ph.D.(Johns Hop.)

A. M. Ghadirian; M.D.(Tabriz), M.Sc.(Ohio St.), Dipl. Psych(McG.)

C. Gianoulakis; B.Sc.(Sir G. Wms.), Ph.D.(Rutgers)

J.C. Negrete; M.D.(Tucuman), Dip.Psych.(McG.)

J. Paris; M.D.(McG.)

G. Pinard; B.A., M.D.(Montr.)

S. Young; B.A.(Oxf.), M.Sc.(Lond.)

Professors

C. Benkelfat; M.D.(Rabat) (*James McGill Professor*)

V. Bohbot; Ph.D.(Ariz.)

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)

I. Gold; B.A.(McG.), Ph.D.(Princ.)JA7 293.96 TBrunet; Pn; B.51 70.5.51 70.5.51 70.5.51 70.5.51 792 T1 372.56 TmGrj1auj1 0 0 1 73.638 293.96 Tm(.))Tj1 0 0164 s

Professors

E. Latimer; B.A.Sc.(Wat.), M.S., Ph.D.(Carn. Mell)

M. Lepage; B.A.(C'dia), Ph.D.(UQAM)

M. Leyton; Ph.D.(C'dia) (*William Dawson Scholar*)

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)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.) (*Psychology*)

J. Poirier; Ph.D.(Montr.)

R. Quirion; M.Sc., Ph.D.(Sher.)

M. N. Rajah; B.Sc., M.A., Ph.D.(Tor.)

P. Rosa; M.D.(Rio Grande do Sul), Ph.D.(Aarhus)

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

J. Armony; B.Sc.(Buenos Aires), M.Sc., Ph.D.(NYU)

P. Assalian; Dip.Psychol.(McG.), M.B.,Ch.B.(Cairosychol.(McG.), M.443.28 Tm(P)Tj1 0 0 1hchol.(McG1 0 0 1 1mssor

Associate Professors

A. Granich; M.D.(McG.), F.R.C.P.

B. Greenfield; M.D.(Wash.)

N. Grizenko; M.D.,C.M.(Sher.)

R. Gruber; B.A., M.S., Ph.D.(Tel Aviv)

Assistant Professors

D.

Assistant Professors

J. Friedland; M.D.(Calg.)

M. Gauthier; M.D.,C.M.(Montr.)

K. Geagea; M.D.,C.M.(SJU)

J. Glass; B.A.(Boston), M.D.,C.M.(McG.)

K. Goddard; M.D.,C.M.(Manit.)

M. Grignon; B.A.(Montr./Ott.), M.A.(Ott.)

J. Gumezap Tspmo; M.D.(Laval)

P. Habib; M.D.(Beirut Med. Sch.)

B. Hayton; B.A.(Williams), M.D.,C.M.(McG.)

L. Hoffman; M.D.(McG.)

F. Ianni; B.Sc.(McG.), M.D.,C.M.(Montr.)

H. Iskandar; Dip.Psychol.(McG.), M.B.,Ch.B.U)

Assistant Professors

K. O'Donnell; Ph.D.(Imp. Coll. Lon.)

J.A. O'Neil; B.A.(C'dia), Dip.Psychol., M.D.,C.M.(McG.)

M. Piat; Ph.D.(Laval)

L. Pinard; M.D.(Montr.), F.R.C.P.(C)

Z. Prele

Assistant Professors

D. Zigman; M.D.(McG.)

E. Zikos; M.D.(Montr.)

Lecturers

F. Amdiss, T. Bedrossian, J.F. Belair, F. Bensaada, I. Blais, M. Boisvert, O. Boureanu, V. Brazzini-Poisson, C.M.J. Brebion, Mioara Bunea Cotfas, A. Cadivy, E. Casimir, E. Cauchois, P. Chan, C. Chen, C. Chenaud-Soucy, M. Cicalo, 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, L. LaChance, S. Mauger, D. Michaud, D.F.S. Monti, K. Myron, R. Orenman, C. Paquin-Hodge, R. Payeur, L. Peters, M. Pickles, M. Quintal, K. Richter, D.T. Rochon, A. Schiavetto, V. Tagalakis, F.C. Toma, O. Triffault, E. Veljanova, S. Wisebord

Associate Members

R.C. Bagot, C. Blake, S. Bond, M. Drapeau, A. Evans, J. Foley, M-C Geoffroy, M. Larose, M. MacKenzie, S. Margolese, L. McVey, T. Montreuil, G. O'Driscoll, J. Russell, R.N. Spreng, J.I. Trakadis, Z. Vang

Adjunct Professors

M. Alda, E. Amirali, P. Blier, L. Booij, B. Chaumette, A. Daigneault, A. Duffy, D. Fikretoglu, A. Gagnon, J.-M. Guile, F. Jollant, B. Kieffer, V. Kovess, R. Labonte, A. Lesage, S.J. Lloyd, A. Maccordick, T. Ngo-Minh, J. Pruessner, M. Pruessner, S. Richard-Devantoy, A. Ryder, C. Tranulis

Post-Retirement

D.P. Dastoor, J.P. Ellman

11.12.20.5 Master of Science (M.Sc.) Psychiatry (Thesis) (45 credits)

The M.Sc. in Psychiatry is administered by the Graduate Training Committee. Each student selects a Supervisory Committee composed of the research supervisor plus two to four other faculty who are knowledgeable about the student's research area and who can advise both on appropriate coursework and on the thesis research project. The student will meet with this Supervisory Committee at least once during each year of matriculation for the purpose of evaluating academic and research progress of the student. The Supervisory Committee will also act as a resource body for the student, both with respect to academic and administrative matters.

Thesis Courses (36 credits)

PSYT 691	(12)	Thesis Research 1
PSYT 692	(12)	Thesis Research 2
PSYT 693	(12)	Thesis Research 3

Complementary Courses (9 credits)

9 credits of graduate-level courses approved by the student's Supervisory Committee.

Courses are selected on the basis of the area of research interest and the background of the student, and must include a course in statistical analysis if not presented upon admission.

11.12.20.6 Doctor of Philosophy (Ph.D.) Mental Health

The Ph.D. in Mental Health, which is rooted in a strong tradition of multidisciplinary research approaches, focuses on the development of mental health services and policy, social and cultural psychiatry, and clinical and transnational psychiatry. Students are exposed to a rich body of knowledge in psychiatry

PSYT 701	(0)	Comprehensive Exam Mental Health

Complementary Courses (3 credits)

3 credits from the following or 3 credits of 500 level or higher from another unit chosen in consultation with the student's academic advisor or supervisor:

PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 515	(3)	Advanced Studies in Addiction
PSYT 620	(3)	Trends in Clinical Psychiatry
PSYT 625	(3)	Qualitative Research in Health Care
PSYT 630	(3)	Statistics for Neurosciences
PSYT 633	(3)	Social and Cultural Research Methods
PSYT 682	(3)	Psychosocial Issues of Disease
PSYT 696	(3)	Special Topics in Psychiatry
PSYT 711	(3)	Cultural Psychiatry
PSYT 713	(3)	Psychiatric Epidemiology

11.12.21 Surgery, Experimental

11.12.21.1 Location

Surgery, Experimental
Montreal General Hospital, Room C9-169
1650 Cedar Avenue
Montreal QC H3G 1A4
Canada

section 11.12.21.7: Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Education (45 credits)

This concentration provides a foundation in surgical education practice and research. The program highlights the unique teaching and learning environment of surgery coupled with a basis in educational theory, curricular design, and implementation. A major emphasis of this program is sur
research with the elaboration, designs, implementation, and analysis of a research project founded in best practices of educational research. The research project may encompass, but is not limited to, surgical stimulation, technical skills acquisition, surgical technology, and assessment.
such, participants work in these teams to identify clinical needs and to innovate solutions to them.

section 11.12.21.8: Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Innovation (45 credits)

This concentration is intended for residents interested in developing new devices and software solutions for surgical needs, as well as non-clinician trainees with a passion for healthcare technology. The program allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs-driven and marketable prototypes used in development of novel surgical and medical devices. As

section 11.12.21.9: Master of Science (M.Sc.) Experimental Surgery (Non-Thesis) (45 credits)

This is a graduate level training program in fundamentals of modern surgical research. The program is based primarily on academic course work and short projects. It is designed to be flexible and provide students the opportunity to gain knowledge in various surgical core disciplines while allowing training opportunities in more specific areas such as global surgery, innovation, education or as the interest of the students dictates.

section 11.12.21.10: Doctor of Philosophy (Ph.D.) Experimental Surgery

The doctoral program is intended for students with excellent academic standing who wish to pursue research-focused careers in academia, the medical field, or industry. Thesis projects, available in the various laboratories of the Department, ensure that students receive in-depth training and exposure to varied conceptual frameworks and a wide array of experimental strategies.

section 11.12.21.11: Graduate Certificate (Gr. Cert.) Surgical Innovation (15 credits)

The centre of this graduate program is two innovation courses (EXSU 620 and EXSU 621) delivered by the McGill Department of Sur . The first semester of the program focuses on team building and, supported by lectures, the students embark on a needs-finding process by observing all aspects of clinical activity in their focus themes. The trainees learn basic prototyping skills, start-up organization, and project management. This is supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This certificate then gives a solid non-thesis-based foundation in the innovation process.

section 11.12.21.12: Graduate Diploma (Gr. Dip.) Surgical Innovation (30 credits)

The cores of this program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Surgery, Experimental Surgery (EXSUvaied bimental

Graduate Certificate and Graduate Diploma

Generally a B.Sc. in biological, biomedical and life science; physical science; computer science; an M.D. degree; or a B.Eng. is required. Exceptionally, on a case-by-case basis, an applicant holding a B.Com.; B.C.L./LL.B.; or B.A. or B.Sc. in humanities and social sciences will be considered. An applicant must have a minimum CGPA of 3.2/4.0.

11.12.2.1.3.2 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.

11.12.2.1.3.2.1 Additional Requirements

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

- Curriculum Vitae
- Research Project Proposal
- Confirmation of Supervisor
- Memorandum of Agreement
- Tuition

Professors

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

P. Puligandla; M.D., M.Sc.(UWO), F.R.C.S.(C)

J. Sampalis; M.Sc., Ph.D.(McG.)

T. Steffen; M.D.(Switz.), Ph.D.(McG.)

A. Thomson; Ph.D.(Lond.)

D. Zukor; B.Sc., M.D.,C.M.(McG.)

Assistant Professors

A. Dragomir; M.Sc., Ph.D.(Montr.)

J. Faria; M.D.,C.M., M.Sc.(McG.), F.R.C.S.(C)

J. Fiore; M.Sc.(Fed. U. Sao Paulo), Ph.D.(Melb.)

O. Huk; B.Sc., M.D.,C.M.(McG.), M.Sc.(Montr.)

P. Jarzem; B.Sc., M.D.(Qu.)

E. Lee; B.A.(Boston), M.Sc., Ph.D.(McG.)

K. Mackenzie; B.Sc.(Br. Col.), M.D.,C.M.(McG.), F.R.C.S.(C)

E. Mitmaker; M.D.(TJU), M.Sc.(McG.), F.R.C.S.(C)

M. Petropavlovskaia; M.Sc., Ph.D.(Moscow)

N. Saran; M.D., B.Sc.(Br. Col.)

K. Shaw; M.D.,C.M., M.Sc.(McG.)

Associate Members

M.N. Burnier

M. Cantarovich

J.C. Chen

F. Cury

C.E. Ferland-Legault

P. Goldberg

A. Gursahaney

J. Henderson

D. Juncker

S. Komarova

J.J. Lebrun

N.M. Makhoul

S. Mayrand

M. Murshed

P.H-N. Nguyen

S. Prakash

L.A. Stein

M. Tabrizian

B.M. Willie

Professor of Practice

S. Arless; B.Sc.(McG.)

11.12.21.5 Master of Science (M.Sc.) Experimental Surgery (Thesis) (45 credits)

The M.Sc. in Experimental Surgery offers a graduate-level training program in experimental surgery, leading to a Master's degree. This program allows for a hands-on learning experience for students to develop skills necessary to work within multidisciplinary teams in the creation of novel, needs driven, and marketable prototypes used in development of novel surgical and medical devices. As such participants work in multidisciplinary teams. The program offers both specialized and broad-based training through the use of the most recent techniques in molecular biology, biochemistry, pharmacology, physiology, pathology, bio-informatics, and genomics.

Thesis Courses (30 credits)

EXSU 690	(4)	M.Sc. Research 1
EXSU 691	(4)	M.Sc. Research 2
EXSU 692	(4)	M.Sc. Research 3
EXSU 693	(18)	M.Sc. Thesis

Required Courses (9 credits)

EXSU 601	(3)	Knowledge Management 1
EXSU 602	(3)	Knowledge Management 2

And:

3 credits from the following:

EXSU 602	(3)	Knowledge Management 2

Complementary Courses (3 credits)

3 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

Depending on their individual backgrounds, students may be asked by their Research Advisory Committee to take additional courses.

11.12.21.7 Master of Science (M.Sc.) Experimental Surgery (Thesis): Surgical Education (45 credits)

The M.Sc. in Experimental Surgery, Concentration in Surgical Education, provides a foundation in surgical education practice and research.

EXSU 620	(3)	Surgical Innovation 1
EXSU 621	(3)	Surgical Innovation 2

And:

3 credits from the following:

EDPE 575	(3)	Statistics for Practitioners
EPIB 507	(3)	Biostats for Health Sciences
EXSU 606	(3)	Statistics for Surgical Research

Complementary Courses (3 credits)

3 credits taken from 500-, 600-, or 700- level courses in consultation with the Research Advisory Committee.

Depending on their individual background, students may be asked by their Research Supervisory Committee to take additional courses.

11.12.21.9 Master of Science (M.Sc.) Experimental Surgery (Non-Thesis) (45 credits)

EXSU 505 (3) Trends in Precision Oncology

Required Courses (9 credits)

EXSU 601	(3)	Knowledge Management 1
EXSU 602	(3)	Knowledge Management 2
	(0)	Comprehensive Examination

Required Courses (15 credits)

12 credits in:

CORG 556	(3)	Managing and Engaging Teamwork
EXSU 619	(3)	The Hospital Environment
EXSU 620	(3)	Surgical Innovation 1
EXSU 621	(3)	Surgical Innovation 2

And:

3 credits from the following:

EDPE 575	(3)	Statistics for Practitioners
EPIB 507	(3)	Biostats for Health Sciences
EXSU 606	(3)	Statistics for Surgical Research

Complementary Courses (9 credits)

9 credits from the following:

CACC 520	(3)	Accounting for Management
CMR2 542	(3)	Marketing Principles and Applications
CPL2 510	(3)	Communication and Networking Skills

Or:

9 credits of graduate-level courses tak

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)**

12.2.2 Location

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

Note: For inquiries reg

- 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*

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 or the collective agreement. This applies to all postdocs, including those whose funding does not come from the Canadian research councils.

4. **Privileges**

i. Postdocs hav

- 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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

12.8.3 Vacation Policy for Graduate Students and Postdocs

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

- The individual must comply with regulations and procedures governing research ethics and safety and obtain the necessary training
- The individual will be provided access to McGill libraries, email, and required training in research ethics and safety. Any other University services must be purchased (e.g., access to athletic facilities)
- The individual must arrange for basic health insurance coverage prior to arrival at McGill and may be required to provide proof of coverage

12.9 Graduate Studies Guidelines and Policies

Refer to *University Regulations & Resources* > *Graduate* > *section 1.2: Guidelines and Policies* for information on the following:

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

12.10 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

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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.

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 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 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 aw

their first year of study. Posts are advertised through the Music Research and Performance Departments at the beginning of each semester and through the *Work Study website*.

A variety of research assistantships in selected areas are also available. Inquiries should be directed to the supervisors, the Associate Dean of Graduate Studies in Music, and the Associate Dean for Research (see *www.mcgill.ca/music/people-research/staff-directory*).

section 12.12.1.20: Master of Music (M.Mus.) Sound Recording (Non-Thesis) (60 credits)

Students admitted to the M.Mus. in Sound Recording may be required to successfully complete one or more undergraduate course(s) before the beginning of the Master's program.

For more information, see *www.mcgill.ca/music/programs/mmus-sound-recording*.

section 12.12.1.18: Master of Arts (M.A.) Music: Theory (Thesis) (45 credits)

The M.A. in Music; Theory explores how specific pieces of music are put together and how this may be generalized to relate to the way other pieces of music are composed, including music theory, various analytical models and the critical issues that define the discipline.

Students admitted to the M.A. Music; Theory program who have undergraduate degrees other than the B.Mus. in Theory from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/ma-theory*.

section 12.12.1.19: Master of Arts (M.A.) Music Theory (Thesis): Gender and Women's Studies (45 credits)

The M.A. in Music; Theory - Gender and Women's Studies focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. This program is offered in collaboration with the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University.

Students admitted to the M.A. in Music; Theory – Gender and Women's Studies who have undergraduate degrees other than the B.Mus. in Music History from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/ma-theory*.

section 12.12.1.11: Master of Arts (M.A.) Music: Music Education (Non-Thesis) (45 credits)**,**

section 12.12.1.13: Master of Arts (M.A.) Music: Musicology (Non-Thesis) (45 credits)**, and**

section 12.12.1.17: Master of Arts (M.A.) Music: Theory (Non-Thesis) (45 credits)

The M.A. program in Music; Non-Thesis - Music Education is a course-based program that focuses on disciplinary research methodologies and critical issues. Guidance is provided by leading scholars whose internationally acclaimed research covers a broad spectrum of topics central to the music education discipline.

Students admitted to the M.A. in Music; Non-Thesis - Music Education program who have undergraduate degrees other than the B.Mus. in Music Education from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

The M.A. in Music; Non-Thesis - Musicology is a course-based program that focuses on research methodologies and critical issues. Guidance is provided by leading scholars whose internationally-acclaimed research covers a broad spectrum of topics central to the Musicology discipline.

Students admitted to the M.A. in Music; Non-Thesis - Musicology program who have undergraduate degrees other than the B.Mus. in Music History from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

The M.A. in Music; Non-Thesis - Theory is a course-based program that focuses on disciplinary knowledge and critical issues. Guidance provided by leading scholars whose internationally-acclaimed research covers a broad spectrum of topics central to the theory discipline.

Students admitted to the M.A. in Music; Non-Thesis - Theory who have undergraduate degrees other than the B.Mus. in Theory from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

For more information, see *www.mcgill.ca/music/admissions/graduate/masters*.

section 12.12.1.24: Master of Music (M.Mus.) Performance: Jazz Performance ~~(Thesis) (45 credits)~~

section 12.12.1.23: Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

with a B.Mus. Major Early Music Performance degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/mmus-early-music*.

section 12.12.1.26: Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

The M.Mus. Performance; Orchestral Instruments, Guitar program provides instrumentalists and guitarists with the opportunity to hone their artistry and expressive, interpretative skills. The program combines performance with seminars in performance practice in the broader humanistic and scientific contexts of music and artistic research-creation.

Students admitted to the M.Mus. Performance; Orchestral Instruments, Guitar program who have undergraduate degrees other than the B.Mus. in Performance Orchestral Instruments or Guitar from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus. in Performance Orchestral Instruments or Guitar degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/mmus-orchestral-instruments-guitar*.

section 12.12.1.21: Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis) (45 credits)

The M.Mus. in Performance; Collaborative Piano program focuses on the pianist as a collaborative musician in art song, instrumental, and opera répétiteur settings, including coaching responsibilities as well as collaboration with other musicians. Candidates need to have excellent technique and interpretative skills, sight-reading abilities, and previous collaborative experience.

Students admitted to the M.Mus. in Performance; Collaborative Piano program who have undergraduate degrees other than the B.Mus. in Performance Piano from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus. Major Performance Piano from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/mmus-collaborative-piano*.

section 12.12.1.28: Master of Music (M.Mus.) Performance: Piano (Thesis) (45 credits)

The M.Mus. in Performance; Piano program immerses the pianist in a vibrant musical environment that blends performance training with humanities-based scholarship. The program provides opportunities for chamber music and a range of recital options including solo and chamber music performance, sound recording, and creative interdisciplinary projects.

Students admitted to the M.Mus. in Performance; Piano program who have undergraduate degrees other than the B.Mus. in Performance Piano from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus. in Performance Piano degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

For more information, see *www.mcgill.ca/music/programs/mmus-piano*.

section 12.12.1.27: Master of Music (M.Mus.) Performance: Organ (Thesis) (45 credits)

The M.Mus. in Performance; Organ program provides organists with the 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.

Students admitted to the M.Mus. in Performance; Organ program who have undergraduate degrees other than the B.Mus. in Performance (Organ) from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus. Major Performance (Organ) degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

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)

The M.Mus. in Performance; Conducting program allows students to specialize in instrumental or choral conducting. 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.

Students admitted to the M.Mus. in Performance; Conducting program who have undergraduate degrees other than the B.Mus. from McGill University may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus. de

section 12.12.1.25: Master of Music (M.Mus.) Performance: Opera and Voice (Thesis) (45 credits)

The M.Mus. in Performance; Opera and Voice program immerses the students in a vibrant musical environment that blends performance training with humanities-based scholarship. The program provides opportunities to develop artistry in a variety of solo and operatic repertoires.

Students admitted to the M.Mus. in Performance; Opera and Voice program who have undergraduate degrees other than the B.Mus. in Performance Voice from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus. Major Performance Voice degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

F

section 12.12.1.5: Doctor of Philosophy (Ph.D.) Music (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory)

The PhD in Music is offered in six different topic areas: Musicology, Music Theory, Music Technology, Music Education, Sound Recording and Composition with the possibility to conduct research in an interdisciplinary way.

Students admitted to the PhD; Music program who have a master's degree other than a master's degree in music from McGill University may be required to successfully complete one or more undergraduate courses before completion of the doctoral degree.

For more information, see *www.mcgill.ca/music/admissions/graduate/doctoral*.

section 12.12.1.6: Doctor of Philosophy (Ph.D.) Music: Gender and Women's Studies

This program is open to doctoral students who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. This program is offered in collaboration with the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University.

Students admitted to the PhD in Music who have a master's degree other than a master's degree in music from McGill University may be required to successfully complete one or more undergraduate course(s) before completion of the doctoral program.

For more information, see *www.mcgill.ca/music/admissions/graduate/doctoral*.

12.12.1.3 Doctor of Music (D.Mus.) Music: Composition

The D.Mus. in Music; Composition offers private instruction with some of Canada's most accomplished composers as well as studies in different compositional methods and technologies.

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, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 9 credits may be replaced with a supervised special project approved by the advisory committee, departmental chair and the Associate Dean of Graduate Studies in Music.

0-8 credits from (Voice Candidates only: Vocal Repertoire Coaching):

MUIN 700	(2)	Doctoral Repertoire Coaching 1
MUIN 701	(2)	Doctoral Repertoire Coaching 2
MUIN 702	(2)	Doctoral Repertoire Coaching 3
MUIN 703	(2)	Doctoral Repertoire Coaching 4

Doctor of Philosophy (Ph.D.) Music (Composition, Music Edu 179.945 139.126 Tm(y (r-6c4ym((4))Tj83)Tj1 0 0 3dnl823 Tm(V)Tjc4ym((4

Details concerning the comprehensive examinations, thesis, and academic regulations are available from the Graduate Studies Coordinator, Schulich School of Music or from the Music Graduate website at: http://www.mcgill.ca/music/programs.

Thesis

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

No foreign-language reading examinations required in Sound Recording and Music Technology.

Composition/Music Education

One foreign-language reading examination required. Students whose mother tongue is French are exempt from the French Reading Exam.

Musicology

One foreign-language reading examination required in one language other than English (or French for francophone students) as determined in consultation with their supervisor. All students who intend to do dissertation research on music in the European tradition are strongly advised to acquire reading knowledge of German in addition to the language requirement related to their research.

Music Theory

Two foreign languages required. Normally, one of these will be German and the other related to the candidate's field of research. An additional language may be required if considered necessary for the candidate's research. Students whose mother tongue is French are exempt from the French Language Reading examination. Note: The language reading examinations must be passed before a candidate will be permitted to sit the comprehensive examinations.

Required Courses

MUGS 701	(0)	Comprehensive Examinations
MUGS 705	(0)	Colloquium

Complementary Courses (6-30) credits)

Students entering in Ph.D. 1

15 credits of seminars at the 600 level or higher, approved by the Department. For Music Theory students, 0-6 credits will be selected from the following if not taken previously or equivalent courses:

MUTH 658	(3)	History of Music Theory 1
MUTH 659	(3)	History of Music Theory 2

6-15 credits of additional seminars at the 600 level or higher, will be assigned by the Associate Dean of Graduate Studies in Music in consultation with the area coordinator at the time of the admissions.

Students entering in Ph.D. 2

6-15 credits of seminars at the 600 level or higher will be assigned by the Associate Dean of Graduate Studies in Music in consultation with the area coordinator at the time of admissions. The selection must be approved by the Schulich School of Music. For Music Theory students, 0-6 credits will be selected from the following if not taken previously or equivalent courses:

MUTH 658	(3)	History of Music Theory 1
MUTH 659	(3)	History of Music Theory 2

24 credits; Composition students entering in Ph.D. 2 only:

12 credits of seminars at the 600 level or higher and 12 credits (two years) of:

MUCO 710	(0)	General Examinations
MUCO 722D1	(3)	Doctoral Composition Tutorial

MUCO 722D2	(3)	Doctoral Composition Tutorial

Composition students only: Composition Performance

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

Composition students only:

MUCO 710	(0)	General Examinations

Sound Recording students only:

MUSR 690	(3)	Special Field Research

Music Theory students only:

MUTH 710	(0)	Teaching Practicum
MUTH 711	(0)	General Examinations

12.12.1.6 Doctor of Philosophy (Ph.D.) Music: Gender and Women's Studies

This program is open to doctoral students who are interested in crosa 0 0 1sel7y (Ph.Dhhd1.6

Students entering in Ph.D. 1

27 credits of seminars at the 600 level or higher, approved by the Department (3 of the 24 credits must be in gender/women's studies, taken in the Schulich School of Music or outside and approved by the Musicology or Theory area.

Students entering in Ph.D. 2

12 credits of seminars at the 600 level or higher, approved by the Schulich School of Music (3 of the 15 credits must be in gender/women's studies, taken in the Schulich School of Music or outside and approved by the Musicology or Theory area).

Music Theory students only:

MUTH 710	(0)	Teaching Practicum
MUTH 711	(0)	General Examinations

12.12.1.7 Graduate Artist Diploma (Gr. Art. Dip.) Performance (30 credits)

A one-year graduate performance diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloists, opera singers, collaborative pianists, chamber, jazz, and orchestral musicians or for further graduate studies in performance. Program requirements are flexible, with a range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by audition, with candidates having previously completed a B.Mus., a Licentiate, or M.Mus.

Required Courses (16 credits)

MUIN 710	(8)	Graduate Artist Diploma Tutorial 1
MUIN 711	(8)	Graduate Artist Diploma Tutorial 2

Complementary Courses (14 credits)

8 credits from the following:

MUPG 740	(4)	Graduate Artist Diploma Performance Project 1
MUPG 741	(4)	Graduate Artist Diploma Performance Project 2
MUPG 742	(8)	Graduate Artist Diploma Performance Project 3
MUPG 743	(4)	Graduate Artist Diploma Interdisciplinary Project
MUPG 744	(4)	Graduate Artist Diploma Concerto Performance
MUPG 745	(4)	Graduate Artist Diploma Recording Project

0-3 credits from:

MUSR 692	(3)	Music Production Workshop

* Required of all instruments except Voice.

3-6 credits from the following:

Performance courses with Schulich School of Music approval from the following lists:

3-6 credits from any ensemble courses with the prefix MUEN at the 500 or 600 level

MUIN 611	(1)	Vocal Coaching 2

Piano

MUPG 670**	(2)	Advanced Continuo 1
MUPG 671**	(2)	Advanced Continuo 2
MUPG 687***	(1)	Collaborative Piano Repertoire 1: Song
MUPG 688***	(1)	Collaborative Piano Repertoire 2: Instrumental
MUPG 689***	(1)	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

** if not already taken

*** may be repeat 727-th permission of the instructor

MUEN 593	(2)	Choral Ensembles

3 credits from the following:

MUIN 610	(1)	Vocal Coaching 1
MUIN 611	(1)	Vocal Coaching 2
MUPG 590**	(3)	Vocal Styles and Conventions

Piano

MUPG 670**	(2)	Advanced Continuo 1
MUPG 671**	(2)	Advanced Continuo 2
MUPG 683	(1.5)	Piano Seminar 1
MUPG 684	(1.5)	Piano Seminar 2
MUPG 687***	(1)	Collaborative Piano Repertoire 1: Song
MUPG 688***	(1)	Collaborative Piano Repertoire 2: Instrumental
MUPG 689***	(1)	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio

Chamber Music

MUIN 500	(1)	Practical Instruction 1

Organ

MUPG 575D1	(1.5)	Organ Repertoire and Performance Practice
MUPG 575D2	(1.5)	Organ Repertoire and Performance Practice
MUPG 670**	(2)	Advanced Continuo 1
MUPG 671**	(2)	Advanced Continuo 2

One 3-credit seminar at the 500 or 600 level approved by The Schulich School of Music

Early Music/Harpsichord

MUPG 670**	(2)	Advanced Continuo 1
MUPG 671**	(2)	Advanced Continuo 2

Jazz

MUJZ 640**	(2)	Jazz Composition & Arranging 1
MUJZ 641**	(2)	Jazz Composition & Arranging 2

One 3-credit seminar starting with MUPG**

* Not open to Jazz students

** if not already taken

*** may be repeated with the permission of the instructor

12.12.1.10 Master of Music (M.Mus.) Music: Composition (Thesis) (45 credits)

The M.Mus. in Music; Composition focuses on the development of individual voices through private instruction with some of Canada's most accomplished composers, all of whom have distinguished themselves through high-profile commissions, performances, recordings, and awards. The faculty members' diverse interests ensures a suitable mentor/supervisor.

Students admitted to the M.Mus. in Music; Composition program who have undergraduate de

Required Courses (33 credits)

MUCO 622D1	(3)	Composition Tutorial
MUCO 622D2	(3)	Composition Tutorial

Thesis

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

Complementary Courses (12 credits)

6 credits from the following:

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

6 credits of seminars, at the 600 level or higher, approved by the Schulich School of Music.

12.12.1.11 Master of Arts (M.A.) Music: Music Education (Non-Thesis) (45 credits)

The M.A. in Music; Non-Thesis - Music Education is a course-based program that focuses on disciplinary research methodologies and critical issues. Guidance is provided by leading scholars whose internationally acclaimed research cov

9 credits of seminars at the 600 level or higher, approved by the School of Music. With the approval of the Music Education Area, 6 credits may be taken in the Faculty of Education.

12.12.1.12 Master of Arts (M.A.) Music: Music Education (Thesis) (45 credits)

The M.A. in Music; Music Education provides an opportunity for studio-and classroom-based teachers and music educators working in other community settings, to explore current issues in music education and to implement their own research studies. Seminars introduce foundations of a range of research methodologies and critical thinking skills.

Students admitted to the M.A. in Music; Music Education program who have undergraduate degrees other than the B.Mus.; Minor in Music Education from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (33 credits)

MUGT 610	(3)	Seminar - Music Education 1

Thesis Courses:

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Education.

Required Courses (33 credits)

MUHL 529	(3)	Proseminar in Musicology
WMST 601	(3)	Feminist Theories and Methods

Thesis Courses

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

Complementary Courses (12 credits)

6 credits from the following:

MUHL 680	(3)	Seminar in Musicology 1
MUHL 681	(3)	Seminar in Musicology 2
MUHL 682	(3)	Seminar in Musicology 3
MUHL 683	(3)	Seminar in Musicology 4
MUHL 684	(3)	Seminar in Musicology 5
MUHL 685	(3)	Seminar in Musicology 6
MUHL 692	(3)	Seminar in Music Literature 1

3 credits of seminars at the 600 level or higher, approved by the Schulich School of Music.

3 credits from the following:

WMST 602	(3)	Feminist Research Symposium

Or a 3 credit seminar at the 600 level or higher, on gender/women's issues, which may be selected from within or outside of the Schulich School of Music. The selection must be approved by the Musicology Area.

12.12.1.16 Master of Arts (M.A.) Music: Music Technology (Thesis) (45 credits)

The M.A. in Music; Music Technology encourages interaction between musical creation, technology, and research, with an intensive focus on scientific research of advanced music technologies. Topics 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 admitted to the M.A. in Music; Music Technology who have undergraduate degrees other than the B.Mus. from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (30 credits)

Thesis Courses:

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 approv

Complementary Courses (15 credits)

MUTH 659	(3)	History of Music Theory 2

3 credits of:

WMST 602	(3)	Feminist Research Symposium

Or a 3 credit seminar at the 600 level or higher, on gender/women's issues, which may be selected from within or outside the Schulich School of Music. The selection must be approved by the Theory Area.

12.12.1.20 Master of Music (M.Mus.) Sound Recording (Non-Thesis) (60 credits)

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

Required Thesis Courses (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.

Complementary Courses (22 credits)

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).

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

A 3-credit seminar at the 600 level or higher with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH.

A 3-credit seminar at the 600 level or higher, approved by the Schulich School of Music.

12.12.1.22 Master of Music (M.Mus.) Performance: Conducting (Thesis) (45 credits)

The M.Mus. in Performance; Conducting program allows students to specialize in instrument or choral conducting. 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.

Students admitted to the M.Mus. in Performance; Conducting program who have undergraduate degrees other than the B.Mus. from McGill University may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus. degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music, some diction courses, orchestration classes and a keyboard course before completion of the Master's program.

Required Courses (21 credits)

MUGS 605	(0)	Graduate Performance Colloquium
MUPG 580*	(1.5)	Rehearsal Techniques for Conductors

* 2 terms of MUPG 580

Thesis Courses

MUIN 630	(3)	Conducting Tutorial 1
MUIN 631	(3)	Conducting Tutorial 2
MUIN 632	(3)	Conducting Tutorial 3
MUPG 600	(9)	Recital Project 1

Complementary Courses (24 credits)

9 credits from the following:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 605	(3)	Recording Project

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

A 3 credit seminar at the 600 level or higher with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH.

A 3 credit seminar at the 600 level or higher, approved by the Schulich School of Music.

6 credits (3 terms) of:

MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

12.12.1.23 Master of Music (M.Mus.) Performance: Early Music (Thesis) (45 credits)

The Master of Music in Performance; Early Music program offers early music instrumentalists and vocalists instruction and performance experiences of a rich variety, as well as studies in historical performance practice.

Students admitted to the M.Mus. in Performance; Early Music program who have undergraduate degrees other than the B.Mus.; Major in Early Music Performance (Voice) or B.Mus.; Major in Early Music Performance (Baroque Violin, Viola, Cello, Viola da Gamba, Flute, Recorder, Oboe, Organ, Harpsichord and Early Brass Instruments) from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major Early Music Performance degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

Required Course (3 credits)

MUEN 580*	(1)	Early Music Ensemble
MUGS 605	(0)	Graduate Performance Colloquium

* 3 credits (3 terms of):

Thesis Courses (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.

Complementary Courses (24 credits)

9 credits from the following:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 604	(6)	Chamber Music Recital
MUPG 605	(3)	Recording Project
MUPG 606***	(3)	Interdisciplinary Project 1
MUPG 607***	(6)	Interdisciplinary Project 2
MUPG 614	(3)	Quick Study

*** Students may take either MUPG 606 or MUPG 607.

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

A 3-credit seminar at the 600 level or higher 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
	(1.5)	Organ Repertoire and Performance Practice

Required Course (3 credits)

MUJZ 601	(3)	Jazz Pedagogy

Required Thesis Courses (27 credits)

9 credits from:

MUIN 626	(3)	Jazz Performance/Composition Tutorial 1
MUIN 627	(3)	Jazz Performance/Composition Tutorial 2
MUIN 628*	(3)	Jazz Performance/Composition Tutorial 3
MUIN 628D1*	(1.5)	Jazz Performance/Composition Tutorial 3
MUIN 628D2*	(1.5)	Jazz Performance/Composition Tutorial 3

* Students may take MUIN 628 or MUIN 628D1 and MUIN 628D2.

18 credits from one of the following:

Jazz Performance:

MUPG 651	(9)	Performance/Composition Recital Project
MUPG 659	(9)	Performance in Recording Media

OR

Jazz Composition and Arranging

MUPG 652	(9)	Jazz Ensemble Recital Project
MUPG 659	(9)	Performance in Recording Media

OR

Jazz Orchestra:

MUPG 651	(9)	Performance/Composition Recital Project
MUPG 652	(9)	Jazz Ensemble Recital Project

Complementary Courses (15 credits)

15 credits from one of the following streams:

Jazz Performance Stream

MUJZ 640	(2)	Jazz Composition & Arranging 1
MUJZ 641	(2)	Jazz Composition & Arranging 2
MUPG 695	(3)	Graduate Jazz Improvisation Seminar

3 credits of a seminar at the 600-level or higher, approved by the Department.

5 credits of ensembles, 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.

OR

Jazz Composition and Arranging Stream

MUJZ 640	(2)	Jazz Composition & Arranging 1

MUJZ 641	(2)	Jazz Composition & Arranging 2

6 credits of seminars at the 600-level or higher, approved by the Schulich School of Music.

5 credits of ensembles, 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.

OR

Jazz Orchestra Stream

4 credits from the following:

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

3 credits of a seminar at the 600 level or higher, approved by the Schulich School of Music.

8 credits of ensembles 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.

12.12.1.25 Master of Music (M.Mus.) Performance: Opera and Voice (Thesis) (45 credits)

The M.Mus. in Performance; Opera and Voice program blends performance training with humanities-based scholarship in a vibrant musical environment. The program provides opportunities to develop artistry in a variety of solo and operatic repertoires.

Students admitted to the M.Mus. in Performance; Opera and Voice program who have undergraduate degrees other than B.Mus.; Major in Performance Voice from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major in Performance Voice degree from McGill University may be required to successfully complete MUPD 560 Introduction to Research Methods in Music before completion of the Master's program.

Required Courses (21 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

Thesis Courses:

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.

Complementary Courses (24 credits)

9 credits from the following:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3

MUPG 603	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 614	(3)	Quick Study

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

A 3-credit seminar at the 600 level or higher, 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.

6 credits from the following:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 553	(1)	Vocal Chamber Ensemble
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 654	(1)	Opera Repertoire Experience
MUEN 696	(1)	Opera Theatre

12.12.1.26 Master of Music (M.Mus.) Performance: Orchestral Instruments, Guitar (Thesis) (45 credits)

The M.Mus. Performance; Orchestral Instruments, Guitar program provides instrumentalists and guitarists with the opportunity to hone their artistry and expressive, interpreti

3-6 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

* May 1 066*

MUPG 572D2*	(.5)	Free Improvisation 2

Percussion:

1 credit of:

MUEN 598	(1)	Percussion Ensembles

2 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
MUEN 598	(1)	Percussion Ensembles
MUPG 571*	(1)	Free Improvisation 1
MUPG 572D1*	(.5)	Free Improvisation 2
MUPG 572D2*	(.5)	Free Improvisation 2

Harp:

3 credits from 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

* May be taken only once.

12.12.1.27 Master of Music (M.Mus.) Performance: Organ (Thesis) (45 credits)

The M.Mus. in Performance; Organ program provides org

Thesis Courses

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.

Complementary Courses (24 credits)

9 credits from the following:

MUPG 601	(9)	Recital Project 2
MUPG 602	(6)	Recital Project 3
MUPG 603	(3)	Recital Project 4
MUPG 605	(3)	Recording Project
MUPG 606	(3)	Interdisciplinary Project 1
MUPG 607	(6)	Interdisciplinary Project 2
MUPG 676	(9)	Special Project in Church Music

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
	(3)	Performance Practice Seminar 6

MUPG 606*	(3)	Interdisciplinary Project 1
MUPG 607*	(6)	Interdisciplinary Project 2

* Students may take either MUPG 606 or MUPG 607.

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

A 3-credit seminar at the 600 level or higher with the prefix MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH.

A 3-credit seminar a the 600 level or higher, approved by the Schulich School of Music.

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
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
		Piano EnsemblesPian1)

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.

12.12.1.29.2 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 *www.mcgill.ca/music/admissions/graduate* for detailed application procedures and document requirements.

12.12.1.29.2.1 Additional Requirements

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

- $70.41 audition fee for Performance degrees and diplomas.

12.12.1.29.3 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

Professors
Stev

Associate Professors

Douglas McNabney; B.Mus.(Tor.), M.M.(UWO), D.Mus.(Montr.)

Marina Mdivani; Post-graduate Dip.(Moscow Cons.)

Violaine Melançon; Premier Prix(CMQQ/Curtis Inst.)

Christoph Neidhöfer; Graduate (Hochschule für Musik, Basel), Ph.D.(Harv.)

Jean-Michel Pilc

Ilya Poletaev; B.Mus.(Tor.), M.Mus., M.A., D.M.A.(Yale)

André Roy; B.Mus.(Curtis)

Richard Stoelzel; B.Mus.(South. Miss.), M.Mus.(Conn.)

Axel Strauss; Dipl.(Musikhochschule Rostock), Prof. Studies Cert.(Juilliard)

Joe Sullivan; B.A.(Ott.), M.M.(New England Cons.)

Jean-Sébastien Vallée; B.Mus.(Laval), Grad.Dip.(Sher.), M.Mus.(Calif.-Santa Cruz), D.M.A.(Ill.-Urbana-Champaign)

Lena Weman; M.A.(Uppsala), Ph.D.(Luleå)

André White; B.A.(C'dia), M.Mus.(McG.)

Jonathan Wild; B.Mus., M.A.(McG.), Ph.D.(Harv.)

Assistant Professors

Simon Aldrich; B.Mus., L.Mus.(McG.)

Dorian Bandy; B.A.(Cornell), M.Mus.(RAM, UK), Ph.D.(Glas.)

James Box; B.M.(Southern Methodist U.), M.M.(Cleve. Inst. of Music), Principal Trombone, Montreal Symphony

Jinjoo Cho; B.M., M.M., P.S.(Cleve. Inst. of Music)

Alain Desgagné; Premier Prix(Cons. de Québec), M.Mus.(N'western)

Russell DeVuyst; B.Mus.Ed.(Boston Cons.), M.M.(New England Cons.)

Elizabeth Dolin; B.Mus.(Tor.), Artist Dip.(Ind.)

Jean Gaudreault; LL.L.(Montr.), Graduate(Cons. de Québec), Montreal Symphony

Stephen Hargreaves; B.Mus.(Ind.)

Edward Klorman; B.Mus.(Juilliard), M.A., Ph.D.(CUNY) (*Canada Research Chair*)

Joanne Kolomyjec; B.Mus.(Tor.)

Dominique Labelle; L.Mus.(McG.), Artist Dip.(Boston)

Stéphane Lévesque; Premier Prix(Cons. de Montréal), M.Mus.(Yale), Principal Bassoon, Montreal Symphony

Lisa Lorenzino; B.Mus.(Tor.), B.Ed.(Sask.24.418 3418 8 Tj1 0 0 0487 lhf0 Tw0 Tc0 uilliard), M.A., Ph.D.(CUNY) (

13.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial re

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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

13.8.5 Postdoctoral Research Trainees

Eligibility

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 (tw

section 13.12.1.10: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Neonatology Nurse Practitioner (45 credits)

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 13.12.1.11: Master of Science, Applied (M.Sc.A.) Nursing (Non-Thesis): Nursing Services Administration (49 credits)

This concentration is open to bachelor-prepared nurse students. Students in this concentration develop their capacity to assess the factors that affect and determine the nursing workforce. This will enable them to make strategic and effecti

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 undergraduate studies. Entering students normally hold an undergraduate degree in arts, humanities, science or social science disciplines because the program draws heavily on skills and kno

- Clinical courses must be taken sequentially as identified in the course of study for your concentration.
- Students must be registered with the OIIQ before they can have access to clinical placements. Students who have not completed the registration procedure cannot commence clinical studies.
- Students must have met the vaccination/immunization requirements prior to commencing clinical studies in September.
- Students are required to purchase equipment such as a stethoscope and physical-assessment equipment. Information is provided at registration or within specific courses.
- Students are expected to demonstrate professional behaviour at all times. The Code of Ethics for Nurses and the McGill University Code of Student Conduct (as outlined in the *www.mcgill.ca/students/srr/academicrights* and *www.mcgill.ca/secretariat/policies-and-regulations*) provide guidelines. Professional behaviour is expected in relation to classmates, teachers, patients, the interprofessional team, and the institutions within which studies take place.
- In any formal documentation, students must identify themselves as a McGill Nursing Student with the respective year of study noted.
- Name badges must be worn at all times in clinical studies. These are ordered in the Fall semester of the first year of studies and the cost is charged directly to the student's fee account. Name badges are ordered through the Ingram School of Nursing and students will be required to purchase two sets of name badges in early Fall prior to starting clinical placement. Students must comply with the uniform policy during clinical placements.
- Students must have a photo I.D. taken at the MUHC for their clinical placements there.
- Attendance in clinical courses is mandatory and absences must be discussed with the instructor. Students with repeat absences may be asked to defer clinical studies if progress in the clinical course is compromised.
- Students whose performance in clinical studies does not meet the course objectives will be informed in writing and a learning plan will be developed. Students whose performance is below expectations or who are unsafe in clinical studies may be required to withdraw from the course at any time.
- Students whose academic performance is below expectation or considered to be incompetent or unsafe in clinical studies can be required to withdraw from the course at any time—in such cases the student will receive a grade of WF or F.
- While an effort is made to place students within reasonable travelling distance for clinical studies, each student must budget a sum of money to travel to and from a patient home and clinical institutions.
- Special requests for specific location or hours of clinical study cannot be accommodated.
- Students who are seropositive for Hepatitis B, C, or HIV and/or any other blood-borne pathogens have an obligation to notify their Program Director. These students are referred to the Blood-Borne Infection Risk Assessment Unit (*Service d'évaluation des risques de transmission d'infection hématogènes* [SERTIH]) of the *Québec Institut national de santé publique responsible* for all infected workers, including nursing students. The service will make recommendations regarding clinical placement based on the nature of the situation.
- Clinical courses that are offered during the Summer session may require that students study during the day, evn2U

	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	Feb. 1	Feb. 1
Fall Term: • M.Sc.A. Nursing – all concentrations	Sept. 15	Jan. 1 (N/A for Special, Visiting & Exchange)	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.)(CUA), 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)

Online and Continuing Nursing Initiatives Program Director, Ingram School of Nursing

Annie Chevrier; N., B.N.I., M.Sc.A.(McG.)

B.N. (Integrated) Program Director, Ingram School of Nursing

Mélanie Gauthier; N., B.Sc.(N.)(McG.), M.N.(Syd.)

B.N. (Integrated) Assistant Program Director, Ingram School of Nursing

Oxana Kapoustina; N., B.Sc., M.Sc.A.(McG.)

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

Lia Sanzone; N., B.Sc.(N.), M.Sc.A.(McG.)

Master's (NE) Program Director, Ingram School of Nursing

Antonia Arnaert, N., Ph.D.(KU Leuven)

Master's (DE & QY) Program Director, Ingram School of Nursing

Maria Di Feo,5r590.304 527.7gram Dir

Associate Professors

Sonia Semenic; N., B.A., M.Sc.A., Ph.D.(McG.), Post Doc.(Ott.)

Assistant Professors

Rosetta Antonacci; N., M.Sc.(Admin.)(Laval)

Josée Bonneau; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Annie Chevrier; N., B.N.(I.), M.Sc.A.(McG.)

Françoise Filion; N., B.Sc.(N.), M.Sc.(N.)(Montr.)

Heather D. Hart; N., B.Sc.(N.)(UWO), B.Ed.(Bran.), M.Sc.A.(McG.)

Sylvie Lambert; N., B.Sc.(N.), Ph.D.(McG.), Post Doc.(Newcastle, Australia)

Caroline Marchionni; N., B.Sc.(McG.), M.Sc.(John M.), M.Sc.A.(McG.)

Marjorie Montreuil; N., Ph.D.(McG.)

Norma Ponzoni; N., B.Sc.(N.), M.Sc.(N.), Ph.D.(Montr.)

John Pringle; N.P., M.Sc.(Qu.), Ph.D.(Tor.)

Lia Sanzone; N., B.Sc.(N.), M.Sc.A.(McG.)

Irene Sarasua; N., B.A.(Tor.), 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

Cheryl Armistead; N., B.Sc.(N.), M.Sc.(N.)(Ott.)

Amanda Cervantes; N., B.F.A.(NYU), M.Sc.A.(McG.)

Diana Gausden; N., SCPHN(Southbank Univ., Lond.)

Melanie Gauthier; N., B.Sc.(N.)(McG.), M.N.(Syd.)

Marie-Claude Goyer, B.Sc., M.Sc. (Queen)

Oxana Kapoustina; N., B.Sc., M.Sc.A.(McG.)

Philippe Lamer, B.Sc., M.Sc. (NY)

Giuseppina LaRiccia, B.Sc., M.Sc.(McG.)

Sandie Larouche; N., B.Sc.(N.)(Laval), M.Sc.A.(McG.)

Katherine Logue; N., B.Sc., M.Sc.A.(McG.)

Linda Massé; N., B.Sc.(N.)(Montr.), M.Sc.A.(McG.), LL.M.(Sher.)

Shannon McNamara, B.Sc., M.Sc.(Montr.)

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)

Jodi Tuck; N., B.Sc.(McM.), M.Sc.A.(McG.)

Academic Associates

Hugo Marchand; N., B.N.(I.)(McG.)

Elizabeth Marie Claire Murphy-Lavallée; B.N.(I.)(McG.)

Louise Murray; N., B.Sc., M.Sc.N.(Montr.)

Amélie Samson; N., B.N.(I.)(Sher.)

Rosanna Zappavigna; N., B.Sc, M.Ed. (McG.)

Contracted Faculty (part-time)

Karine Allard

Contracted Faculty (part-time)
Jor

Assistant Professors

Alain Biron, Madeleine Boulay-Bolduc, Mark Daly, Linda Edgar, Jessica Emed, Lucia Fabijan, Valerie Frunchak, Mary Grossman, Andrea Laizner, Ariella Lang, Virginia Lee, Diane E. Lowden, Ann Lynch, Anita Mehta, Michelle Nadon, Patricia O'Connor, Hélène Racine, Marie-Claire Richer, Christina Rosmus, Andreanne Saucier, Charles Sounan

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, Tara Jesion, Rosalie Johnson, John Kayser, Mina Ladores, Philippe Lamer, Anne Marie Lanctôt, Karine Lepage, Rachel Lomas, Luisa Luciani Castiglia, Althea Hazel McBean, Sharon Mooney, Louise Murray, Catherine Oliver, France Paquet, Maxime Paquet, Joanne Marie Power, Andréanne Robitaille, Nathalie Rodrigue, Ramona Rodrigues, Patricia Ann Rose, Irene Sarasua, Maryse Savoie, Eleanor Scharf, Melanie Sheridan, Jessica Sherman, Marie Jennifer Somera, Rosa Sourial, Isabelle St-Sauveur, Janice Karen Stephenson, Lucie Tardif, Gillian Taylor, Claire Thibault, Kelly Thorstad, Lucie Tremblay, Antoinetta Vitale, Lucy Wardell, Rosanna Zappavigna

Adjunct Professors

Bruce Gottlieb, Manon Lacroix, David Wright

Associate Members

Rhonda Amsel, S. Robin Cohen, Jae-Marie Ferdinand, Richard Gosselin, Ronald D. Gottesman, John C. Kirk

Affiliate Members

Joyce Marie Arsenault, Theresa Broda, Patrick Casey, Stephanie Charron, Nadia Andrée Doiron, Meggie Guinan, Tiffany Johnston, Donna Kindrat, Caroline Martel, Colette Mascle, Trisha Andrea Nonog, Caroline Normand, Emily Chang Orlov, Royal Orr, Brigitte Perrier, Lisa Marie Pichocvich, Grzegorz Sobieraj, Chantal Souligny, Karinne Troini, Chantale Viens, Barbara Ann Taugher, Teresa Testa

Other Teaching Centres
Concordia Uni

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 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 through this work. It is based on a belief that we have much to learn from one another. The (M.Sc.A.); Nursing (Non-Thesis) - Global Health Direct Entry Concentration provides students with global health content throughout their program of study, and students spend one semester taking clinical- and project-based courses in their final year in a global health placement site. This concentration is supported by the Global Health Committee of the Ingram School of Nursing. ‘Global Health Direct Entry’ is the concentration label for bachelor-prepared non-nurse students who complete Global Health studies.

Required Courses

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 610	(3)	Ambulatory/Community Care
NUR2 611	(3)	Policy Leadership in Nursing
NUR2 612	(3)	Research Methods in Nursing 1
NUR2 616	(4)	Advanced Clinical Skills
NUR2 623	(3)	Clinical Assessment and Therapeutics 1
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 634	(3)	Clinical Assessment and Therapeutics 2
NUR2 636	(3)	Global Health Nursing Clinical
NUR2 638	(3)	Nursing in Critical Care
NUR2 640	(3)	Clinical Reasoning
NUR2 642	(3)	Ethics in Advanced Practice

Required Courses (36 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 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 adv

Required Courses (15 credits)

NUR2 645	(3)	Pharmacology for Pediatric Nurse Practitioners
NUR2 682	(4)	Reasoning in Pediatrics 3
NUR2 683	(4)	Reasoning in Pediatrics 4
NUR2 684	(4)	Reasoning in Pediatrics 5

13.12.1.17 Graduate Certificate (Gr. Cert.) Theory in Primary Care (15 credits)

The Graduate Certificate in Theory in Primary Care prepares students to acquire the theoretical knowledge required to subsequently complete clinical courses in the Graduate Diploma in Primary Care. This program is designed for students who previously completed a master's degree in nursing (equivalent to the McGill M.Sc.(A) in nursing program) but have not completed any nurse practitioner theory or clinical courses. Students will need to complete 6-12 credits in preparatory theory courses prior to entry into the Graduate Certificate program (the specific number of preparatory courses required will depend on whether some of the required courses were completed in their master's degree). Students should consult with the program Academic Adviser prior to applying.

Required Courses (15 credits)

NUR2 646	(3)	Pharmacology for Primary Care Nurse Practitioners
NUR2 672	(4)	Reasoning in Primary Care 3
NUR2 673	(4)	Reasoning in Primary Care 4
NUR2 674	(4)	Reasoning in Primary Care 5

13.12.1.18 Graduate Diploma (Gr. Dip.) Mental Health Nurse Practitioner (30 credits)

Delineates a clinical course of study in mental health as a nurse practitioner, building on theoretical preparation in either a master's or a certificate program.

Required Courses (30 credits)

NUR2 655	(8)	Mental Health Internship 1
NUR2 656	(14)	Mental Health Internship 2
NUR2 695	(4)	Reasoning in Mental Health 6
NUR2 696	(4)	Reasoning in Mental Health 7

13.12.1.19 Graduate Diploma (Gr. Dip.) Neonatal Nurse Practitioner (30 credits)

Required Courses (30 credits)

NUR2 649	(12)	Neonatology Internship 1
NUR2 650	(12)	Neonatology Internship 2
NUR2 666	(6)	Neonatal Follow-Up Internship

13.12.1.20 Graduate Diploma (Gr. Dip.) Pediatric Nurse Practitioner (30 credits)

Delineates a clinical course of study in mental health as a nurse practitioner, building on theoretical preparation in either a master's or a certificate program.

Required Courses (30 credits)

NUR2 653	(8)	Pediatric Internship 1
NUR2 654	(14)	Pediatric Internship 2
NUR2 685	(4)	Reasoning in Pediatrics 6
NUR2 686	(4)	Pediatric Assessment

13.12.1.21 Graduate Diploma (Gr. Dip.) Primary Care Nurse Practitioner (30 credits)

Delineates a clinical course of study in primary care as a nurse practitioner that builds on theoretical preparation in either a master's or certificate program.

Required Courses (30 credits)

NUR2 651	(8)	Primary Care Internship 1
NUR2 652	(14)	Primary Care Internship 2
NUR2 675	(4)	Reasoning in Primary Care 6
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:

14.2.3 Graduate and Postdoctoral Studies' Mission

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

14.3 Important Dates

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

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

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

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at *mcgill.ca/gps/postdocs*), as well as mechanisms for addressing complaints. For their part, postdocs are responsible for informing themselves of such policies, procedures, and privileges.

1. **Definition and Status**

   i. Postdoctoral status will be recognized by the University in accordance with Quebec provincial regulations as may be modified from time to time. The eligibility period for postdoctoral status is up to five years from the date when the Ph.D. or equivalent degree was awarded. A *section 1.2.8: leave of absence* for parental or health reasons may extend the eligibility period. Leaves for other reasons, including vacation, do not impact the eligibility period.

   ii. Some McGill postdocs have dual status as both students and employees (unionized or non-unionized). Consult the *Gr*

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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 the responsibilities of postdocs are:

- to inform themselves of and adhere to the University's policies and/or regulations for postdocs as outlined at *www.mcgill.ca/gps/postdocs*, *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 (Postdoctoral Fellows and Scholars) and HR policies and guidelines (Postdoctoral Researchers).

Approved by Senate, April 2000; revised May 2014; February 2020.

14.8.3 Vacation Policy for Graduate Students and Postdocs

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

Council of FGSR April 23, 1999

Leave of Absence for Health and Parental/Familial Reasons 0 0te and Postdoctoral Studies

on leave. A summary table of various leave policies (paid or unpaid) for students and Postdocs paid from the Federal and Quebec Councils through fellowships or research grants is available at *www.mcgill.ca/gps/funding/getting-paid* under "Leave Policies and Form."

14.8.5 Postdoctoral Research Trainees

Eligibility

If your situation does not conform to the Government of Quebec's definition of 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.

- 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

Information on Researc

Directors

Email: *sarah.marshall@mcgill.ca*

Program Director (Acting), Physical Therapy – Liliane Asseraf-Pasin; B.Sc.(P.T.), Ph.D.(McG.)

Email: *profmasters.spot@mcgill.ca*

Associate Program Director, Physical Therapy – Sabrina Figueiredo; B.Sc.(P.T.), M.Sc.(Rehab.Sc.), Ph.D.(Rehab.Sc.)(McG.)

Email: *profmasters.spot@mcgill.ca*

Program Director, Occupational Therapy – Sara Saunders; B.Sc.(O.T.), Ph.D.(McG.)

Email: *profmasters.spot@mcgill.ca*

Associate Program Director, Occupational Therapy – Susanne Mak; B.Sc.(O.T.), M.Sc.(McG.)

Email: *profmasters.spot@mcgill.ca*

Graduate Programs Director – Isabelle Gélinas; B.Sc.(O.T.)(Montr.), M.Sc.(Virg.), Ph.D.(Rehab.Sc.)(McG.)

Email: *graduate.rehabilitation@mcgill.ca*

Graduate Programs Associate Director – Anouk Lamontagne; B.Sc., M.Sc., Ph.D.(Laval)

Email: *graduate.rehabilitation@mcgill.ca*

14.12.1.2 About Physical and Occupational Therapy

As part of McGill's Faculty of Medicine, we are proud of the outstanding academic environment we offer to our students. The School of Physical and Occupational Therapy is situated on McGill Univ

be provided to students upon immunization and mask fitting completion. Students are required to submit their card electronically by the third clinical seminar (submission details provided in Clinical Seminar 1).

Please also refer to *: Vaccination/Immunization Requirements for Health Sciences Programs* in the undergraduate Health Sciences eCalendar.

14.12.1.4 Physical and Occupational Therapy Admission Requirements and Application Procedures

14.12.1.4.1 Admission Requirements

Language Requirements

Applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized

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*;
6. Applicants must meet the language requirements listed above with the exception of the IELTS (International English Language Testing System). The minimum overall band score that is acceptable is 7.0;
7. Students will be required to interact with francophone patients during their clinical practica. Competence in spoken and written French is highly recommended.

Further information regarding the Qualifying Year is available at *www.mcgill.ca/spot/admissions/professional-programs*.

Qualifying Year f

Assistant Professors

Timothy Wideman; B.Sc.(P.T.), Ph.D.(Exp. Psych.)(McG.)

Associate Professors (Professional)

Adjunct Professors and Associate Members

Walter Wittich; B.Sc., M.A.(C'dia), Ph.D.(McG.)

14.12.1.6 Master of Science (M.Sc.) Rehabilitation Science (Thesis) (45 credits)

Thesis Courses (29 credits)

POTH 696	(2)	Thesis Research
POTH 697	(6)	Thesis Research 1
POTH 698	(9)	Thesis Research 2
POTH 699	(12)	Thesis Research 3

Required Courses (10 credits)

A research proposal is to be submitted in written form and defended in front of a supervisory committee. Research proposals should be completed by the beginning of the second full-time year.

POTH 610	(4)	Research Methodology
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 616	(1)	Seminars in Rehabilitation Science
POTH 617	(0)	Rehabilitation Seminars 1
POTH 628	(3)	Introduction to Regression Analysis

Complementary Courses (6 credits)

To be chosen from among graduate-level departmental course offerings that pertain to the student's area of specialization or other campus courses at the 500 or 600 levels with permission of the Graduate Program Director. Some courses may be offered alternate years only.

POTH 617	(0)	Rehabilitation Seminars 1
POTH 619	(0)	Rehabilitation Seminars 2
POTH 628	(3)	Introduction to Regression Analysis

Complementary Courses (35 credits)

Group A: 20 credits

Chosen from the following courses offered by the School, or other campus courses at the 500 or 600 levels with permission of the Graduate Program Director. Some courses may be offered alternate years only.

Note: Students may take POTH 620 or POTH 630.

POTH 508	(3)	Plasticity in Rehabilitation
POTH 603	(3)	Directed Practicum
POTH 604	(3)	Current Topics in Pediatrics
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 618	(3)	Topics in Rehabilitation
POTH 620	(3)	Measurement: Rehabilitation 1
POTH 630	(3)	Measurement: Rehabilitation 2
POTH 631	(3)	Research Proposal
POTH 673	(3)	Screening for at Risk Drivers
POTH 674	(3)	Assessing Driving Ability 1
POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills
POTH 682	(2)	Promoting Healthy Activity
POTH 685	(3)	Perception and Action

The above list of complementary courses is subject to change. Please refer to our course guide on the School's website.

Group B: 15 credits, one of the following options:

Option 1, Directed Project:

POTH 661	(7)	Research Project 1
POTH 662	(8)	Research Project 2

Note: Registration for the above courses requires pre-approval by the Graduate Program Director.

OR

Option 2, No Directed Project:

15 credits of 500-, 600-, or 700-level courses.

14.12.1.8 Master of Science, Applied (M.Sc.A.PT.) Physical Therapy (Non-Thesis) (63 credits)

The Master of Science, Applied, in Physical Therapy is a 62-credit program to be completed in 1.5 graduate years over five semesters, and includes four clinical practica of 1,050 hours in total, leading to professional licensure to practice. The educational approach is consistent with adult learning, self-directed learning, reflective clinical practice, and inter-professionalism. Strong links between academic and clinical fieldwork education are emphasized. Courses emphasize client-centred and evidence-based practice across the lifespan and health care continuum, and include health promotion from prevention of disability to rehabilitation. In addition to fieldwork, the program requirements include courses in advanced clinical practice, research methodology, and educational methodology. The master's project prepares the entry-to-practice physiotherapist to become an autonomous and effective professional through the acquisition of research skills.

For additional information on courses taken during the Qualifying year, please refer to this website: http://www.mcgill.ca/spot/programs/pt/curriculum.

Students admitted to the M.Sc.A. who ha

IPEA 502	(0)	Patient-Centred Care in Action
OCC1 501	(7)	Clinical Practicum 1
OCC1 502	(7)	Clinical Practicum 2
OCC1 503	(8)	Clinical Practicum 3
OCC1 600J1	(0)	Clinical Practicum Seminars
OCC1 600J2	(0)	Clinical Practicum Seminars
OCC1 600J3	(0)	Clinical Practicum Seminars
OCC1 602	(7)	Clinical Practicum 4
OCC1 617	(6)	Occupational Solutions 2
OCC1 618	(5)	Applied OT: Psychosocial Theory
OCC1 620	(3)	Work/Ergonomics
OCC1 622	(3)	Community-Based OT
OCC1 623	(3)	Assistive Technology
POTH 612	(4)	Applied Clinical Research Methods
POTH 624	(7)	Master's Project

Complementary Courses (3 credits)

3 credits chosen from the following courses offered by the School. With permission from the Academic Director, students may take courses offered at the 500 or 600 levels by other departments at McGill.

OCC1 625	(3)	Functional Environments
OCC1 626	(3)	Mental Health: Child and Youth
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 625D1*	(1.5)	Design of Assistive Technologies: Principles
POTH 625D2*	(1.5)	Design of Assistive Technologies: Principles
POTH 627	(3)	Enabling Eating, Drinking, and Swallowing
POTH 632	(3)	Research Elective
POTH 633	(3)	Function/Activity in Arthritis
POTH 634	(3)	Childhood Performance Issues
POTH 635	(3)	Enabling Upper Extremity Function
POTH 636	(3)	Physical Therapy in Pediatrics
POTH 637	(3)	Cancer Rehabilitation
POTH 638	(3)	Promoting Wellness of Seniors
POTH 640	(3)	Role-Emerging Management

* Must take POTH 625D1 and PO

Required Courses (15 credits)

Note: Of the required courses, at least three will already have been completed by students with an M.Sc. in Rehabilitation Science from McGill University.

EDPH 689	(3)	Teaching and Learning in Higher Education
POTH 610	(4)	Research Methodology
POTH 614	(2)	Selected Topics in Rehabilitation Science
POTH 628	(3)	Introduction to Regression Analysis
POTH 631	(3)	Research Proposal
POTH 701	(0)	Ph.D. Comprehensive

Complementary Course (3 credits)

One of the following courses:

POTH 620	(3)	Measurement: Rehabilitation 1
POTH 630	(3)	Measurement: Rehabilitation 2
POTH 685	(3)	Perception and Action

Elective Courses (3-6 credits)

One or two courses (3 to 6 credits) that pertain to the student's area of specialization; to be chosen from among graduate-level departmental course offerings or other courses at the 500, 600, or 700 level with permission from the Graduate Program Director.

14.12.1.11 Graduate Certificate (Gr. Cert.) Driving Rehabilitation (15 credits)

For more information about online graduate certificates, including up-to-date information on course details and current professors contributing to the courses, see the McGill School of Physical and Occupational Therapy website at http://www.mcgill.ca/spot/programs/online-graduate-certificates/driving-certificate.

Required Courses (15 credits)

POTH 673	(3)	Screening for at Risk Drivers
POTH 674	(3)	Assessing Driving Ability 1
POTH 675	(3)	Driving Assessment Practicum
POTH 676	(3)	Adaptive Equipment and Driving
POTH 677	(3)	Retraining Driving Skills

Note: POTH 673 and 674 are offered online, whereas POTH 675, POTH 676, and POTH 677 have both online components and intensive workshops.

14.12.1.12 Graduate Certificate (Gr. Cert.) Chronic Pain Management (15 credits)

For more information about online graduate certificates including up-to-date information on course details and current professors contributing to the courses, see the McGill School of Physical and Occupational Therapy website at http://www.mcgill.ca/spot/programs/online-graduate-certificates/chronic-pain-management.

Required Courses (12 credits)

POTH 663	(3)	Pain Assessment in Clinical Practice
POTH 664	(3)	Neuroscience and Behavioural Perspectives of Pain

POTH 603	(3)	Directed Practicum
POTH 618	(3)	Topics in Rehabilitation

or another 500-level or higher course (online or not) from a different university, as approved by the Graduate Certificate Program Chair.

NOTE: POTH 603 and POTH 618 are not online courses. They are directed tutorial courses that need pre-approval from the Graduate Certificate Program Chair. Students are encouraged to plan such courses with the instructor at least one semester before intended enrolment. For a complementary course at a different university, consult university regulation and resources for further information on transfer credits prior to enrolment.

15 Faculty of Science

15.1 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

15.3 Important Dates

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

15.8.2 Guidelines and Policy for Academic Units on Postdoctoral Education

Every unit hosting postdocs should apply institutional policies and procedures for the provision of postdoctoral education and have established means for informing postdocs of policies, procedures, and privileges (available at

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 the responsibilities of the academic unit are:

- to verify the postdoc's eligibility period for registration;
- to provide postdocs with departmental policy and procedures that pertain to them;
- to facilitate the registration and appointment of postdocs;
- to assign departmental personnel the responsibility for postdoctoral affairs in the unit;
- 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 the 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

15.8.5 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 subsequentlof a PostdoctomHo re

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- Student Services – Downtown & Macdonald Campuses
- Residential Facilities
- Athletics and Recreation
- Ombudsperson for Students
- Extra-Curricular and Co-Curricular Activities
- Bookstore
- Computer Store
- Day Care

15.11 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

15.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2020–2021 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, chemistry, and computing to address a broad range of topics relating to weather and climate. Examples include:

- atmospheric chemistry;
- climate dynamics;
- cloud and precipitation physics;
- dynamical oceanography and meteorology;
- geophysical turbulence;

- numerical modelling;
- numerical weather prediction;
- ocean carbon b

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

Assistant Professors

T. Preston; B.Sc.(Tor.), M.Sc.(UWO), Ph.D.(Br. Col.) (*joint appt. with Chemistry*)

I. Tan; B.Sc. (Tor.), Ph.D. (Yale)

Adjunct Professors

L. Barrie; Ph.D.(Goethe)

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

15.12.1.6 Master of Science (M.Sc.) Atmospheric and Oceanic Sciences (Thesis): Environment (45 credits)

** This program is currently not offered **

Thesis Courses (24 credits)

ATOC 691	(3)	Master's Thesis Literature Review
ATOC 692	(6)	Master's Thesis Research 1
ATOC 694	(3)	Master's Thesis Progress Report and Seminar
ATOC 699	(12)	Master's Thesis

Although registration is not required, students registered in M.Sc. programs are expected to regularly attend one of the student seminar series (ATOC 751D1/D2 or ATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Required Courses (6 credits)

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

Complementary Courses (15 credits)

12 credits of Departmental courses chosen from the following:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 519*	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Physics
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	()	
CHEM 519*	(3)	Advances in Chemistry of Atmosphere

or another course at the 500 level or higher recommended by the Department's Graduate Program Director.

* Students may select either ATOC 519 or CHEM 519.

3 credits of MSE courses chosen from the following:

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

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

15.12.1.7 Doctor of Philosophy (Ph.D.) Atmospheric and Oceanic Sciences

Thesis

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

Required Courses

(1 credit)

ATOC 700	(1)	Ph.D. Proposal Seminar
ATOC 701	(0)	Ph.D. Comprehensive (General)

Complementary Courses (7 credits)

Students are required to take ATOC 751D1 and ATOC 751D2 OR ATOC 752D1 and ATOC 752D2.

1 credit from:

ATOC 751D1	(.5)	Seminar: Physical Meteorology
ATOC 751D2	(.5)	Seminar: Physical Meteorology
		(.5)

to scientific knowledge. Formal coursew

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. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Participation in the MSE-Panama Symposium presentation in Montreal is also required. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

section 15.12.2.9: Doctor of Philosophy (Ph.D.) Biology

The typical graduate student in this program has a strong background knowledge in cell and molecular biology, biochemistry, organismal biology, ecology, developmental biology, and statistics, often with special strengths in the area of proposed study. Given the continuing trend toward interdisciplinary work, the program also accepts some students with a high scholastic standing who have completed a program in fields other than biology (medicine, engineering, chemistry, physics, etc.).

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 15.12.2.12: 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 critically assess analytic and institutional approaches for alleviating the selected environmental problem, and to effectively communicate research findings to both specialist and lay audiences.

Coordinated and administered through the *McGill School of Environment* (MSE), the Environment concentration is aimed at students who wish to use interdisciplinary approaches in their graduate research on environmental issues and who wish to benefit from interactions that will occur as they interact with students from a wide range of different disciplines. This concentration is available from a variety of faculties and departments.

section 15.12.2.11: Doctor of Philosophy (Ph.D.) Biology: Neotropical Environment

The McGill-Smithsonian Tropical Research Institute (STRI) Neotropical Environment Option (NEO) is a research-based concentration for M.Sc. or Ph.D. students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. The typical NEO student has a very strong interest in conservation because NEO courses focus on conservation issues. Students in the program have diverse backgrounds, originating from Canada, Latin America, and abroad, and must either speak Spanish or enrol in a Spanish course when they enter the program.

NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taught in Panama. Through this educational approach, NEO seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

15.12.2.3 Biology Admission Requirements and Application Procedures

15.12.2.3.1 Admission Requirements

Applicants must have a B.Sc. in a discipline relevant to the proposed field of study with an overall cumulative grade point average (CGPA) of 3.0/4.0 or a CGPA of 3.2/4.0 for the last two full-time academic years. Graduate Record Examination (*GRE*) scores are not required, but may be submitted.

The Test of English as a Foreign Language (*TOEFL*) is required of applicants to graduate studies whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized foreign institution where English is the language of instruction or from a recognized Canadian institution (anglophone or francophone). A score of 86 on the TOEFL Internet-based test (iBT; 550 on the paper-based test (PBT)) with each component score not less than 20, or 6.5 on *IELTS* is the minimum standard for admission.

Admission is based on an evaluation by the Graduate Training Committee and on acceptance by a research director who can provide adequate funding for personal and research expenses. Prospective graduate students are encouraged to *contact faculty members* with whom they wish to study before applying.

15.12.2.3.2 Application Procedures

McGill's online application form for graduate program candidates is available at *www.mcgill.ca/gradapplicants/apply*. All applicants should read the academic faculty and admission procedure sections on the *Biology Department website* before completing the application form. These guidelines contain specific information on the application process, summaries of the research areas of staff, and contact information.

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

Emeritus Professors

Rajinder S. Dhindsa; B.Sc., M.Sc.(Punj.), Ph.D.(Wash.)

Jacob Kalff; M.S.A.(Tor.), Ph.D.(Ind.)

Donald L. Kramer; B.Sc.(Boston Coll.), Ph.D.(Br. Col.)

Martin J. Lechowicz; B.A.(Mich. St.), M.S., Ph.D.(Wisc.)

Barid B. Mukherjee; B.Sc., M.Sc.(Calc.), M.Sc.(Brigham Y

Associate Professors

Alanna Watt; B.Sc.(C'dia), Ph.D.(Brandeis)

Tamara Western; B.Sc.(Dal.), Ph.D.(Br. Col.)

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; B.A.(Cornell), Ph.D.(Calif., Berk.)

Mélanie Guigueno; B.Sc., M.Sc.(Manit.), Ph.D.(UWO)

Anna Hargreaves; B.Sc.(Trent), MSc.(Calg.), Ph.D.(Qu.)

Arnold Hayer; M.Sc.(ESBS, France), Ph.D.(ETH Zurich)

Tomoko Ohyama; B.Sc., M.Sc.(Keio), Ph.D.(Baylor)

Laura Pollock; M.Sc.(S. Illinois); Ph.D.(Melb.)

Fiona Soper; B.Sc.(a6nr.4 Tmiois); Ph.D.(Melb

Master of Science (M.Sc.) Biology (Thesis): En

Thesis Courses (36 credits)

BIOL 690	(10)	Master's Thesis Research 4
BIOL 698	(13)	Master's Thesis Research 2
BIOL 699	(13)	Master's Thesis Research 3

Required Courses (3 credits)

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

Complementary Courses (6 credits)

6 credits from the following courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
		Systems Biology and Bioph

Complementary Courses (6 credits)

3-6 credits chosen from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits chosen from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

15.12.2.11 Doctor of Philosophy (Ph.D.) Biology: Neotropical Environment

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

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner.31emo5nt sta The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be y1 304renC5nrrent standards ilizing ResearaO9s.ld. Finallyic 0 0 Tm(.)Tjeo

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

15.12.3 Chemistry

15.12.3.1 Location

Department of Chemistry
Otto Maass Chemistry Building
801 Sherbrooke Street West
Montreal QC H3A 0B8
Canada
Telephone: 514-398-6999
Fax: 514-398-3797
Email: *graduate.chemistry@mcgill.ca*
Website: *www.mcgill.ca/chemistry*

15.12.3.2 About Chemistry

Research in Chemistry

Members of the Department are organized into various research themes. Some of the current research interests are listed below, and are presented in much more detail on the *Departmental website*.

Analytical/Environmental

The Analytical/Environmental Thematic Research Group at McGill is involved in a wide range of exciting fundamental and applied research with focus on: state-of-the-art instrumental development in spectroscopy; imaging; chemometric and analytical bio-spectroscopy; artificial intelligence; ultra trace sampling; thermochemical, box, and cloud modelling; and state-of-the-art atmospheric kinetics and photochemistry; as well as the development and application of state-of-the-art numerical models of the chemistry of the regional and global atmosphere. Our collective research has direct implications in fields such as materials, environmental, and biomedical chemistry.

Chemical Biology

The Chemical Biology Thematic Research Group is engaged in a diverse range of research topics, which span structural biology, enzymology, nucleic acid research, signalling pathways, single-molecule biophysics, and biophysical chemistry of living tissues. Among the themes that unite the research being performed in this group is the attempt to learn new chemistry and physics from biological systems.

We have projects relating to pharmaceutically relevant enzymes such as those involved in drug metabolism and antibiotic resistance; development of therapeutic agents in the control of inflammation, cancer and viral infections; the chemical biology of NO; quantification of bioenergetic markers of metabolism; self-assembly mechanisms of the HIV-1 virion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translocation across the aqueous/lipid membrane interface; RNAi/antisense technologies; dynamic combinatorial chemistry; protein dynamics and function; mechanistic aspects involved in cellular adhesion and transport in membrane and zeolite channels; and cutting-edge microscopes used to examine transport, motility, and reactivity in cells.

Chemical Physics

The research interests of the members of the Chemical Physics Thematic Research Group are diverse, with groups focusing on high-end laser and NMR spectroscopies, kinetics and modelling of atmospheric chemical reactions, experimental and theoretical biophysical chemistry, polymers at interfaces, and statistical and quantum mechanics. In the field of biophysical chemistry, single molecule spectroscopy is being used to probe enzyme function as well as DN

to the creation of the *McGill Institute for Advanced Materials* (MIAM) and the *McGill Nanotools Facility*. The latter comprises state-of-the-art **micro/nanofabrication**, atomic manipulation and high-performance computing facilities. MIAM and members of the Chemistry Department have established research links to the *Quebec Centre for Advanced Materials*, the Centre for Biorecognition and Biosensors, the *Centre for the Physics of Materials*, and the *Centre for Bone and Periodontal Research*. Synthetic approaches to new materials include research in dendrimers, polynucleic acid architectures, polymers that conduct electrons or light and biopolymers. Polymer and colloid science figure prominently as does research and applications of the chemistry and physical properties of nanostructures. There is significant activity in understanding directed molecular assembly at interfaces and in the application of sophisticated spectroscopic tools to explore them.

Synthesis/Catalysis

The Synthesis/Catalysis Research Activity Group is a collective that develops state-of-art catalysts, synthetic methodologies, reaction mechanisms, and synthetic routes for organic chemicals, natural products, and materials.

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

Note: Applications for Summer term admission will not be considered.

All inquiries concerning graduate work in the Department should be addressed to the Director of Graduate Studies, Department of Chemistry.

15.12.3.4 Chemistry Faculty

Chair
D. Perepichka

Director of Graduate Studies
G. Cosa

Emeritus Professors
T.H. Chan; B.Sc.(Tor.), M.A., Ph.D.(Princ.), F.C.I.C., F.R.S.C.
A. Eisenberg; B.S.(Wor. Poly.), M.A., Ph.D.(Princ.), F.C.I.C.
B.C. Eu; B.Sc.(Seoul), Ph.D.(Brown)
D.G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), F.C.I.C.
E.D. Salin; B.Sc.(Calif.), Ph.D.(Ore.), F.C.I.C.
M.A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.), F.C.I.C.

Professors
M.P. Andrews; B.Sc., M.Sc., Ph.D.(Tor.)
P. Ariya; B.Sc., Ph.D.(York)
B.A. Arndtsen; B.A.(Carleton Coll.), Ph.D.(Stan.)
K. Auclair; B.Sc.(UQAC), Ph.D.(Alta.)
C.J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)
D.S. Bohle; B.A.(Reed), M.Phil., Ph.D.(Auck.)
I.S. Butler; B.Sc., Ph.D.(Brist.), F.C.I.C.
G. Cosa; B.Sc.(UNRC, Argentina), Ph.D.(Ott.)
M.J. Damha; B.Sc., Ph.D.(McG.), F.C.I.C.
T. Friš i ; B.Sc.(Zagreb), Ph.D.(Iowa)
D.N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), F.C.I.C.
A. Kakkar; B.Sc., M.Sc.(Chan. U., India), Ph.D.(Wat.)
R.B. Lennox; B.Sc., M.Sc., Ph.D.(Tor.), F.C.I.C., F.R.S.C.
C.J. Li; B.Sc.(Zhengzhou), M.S.(Chin. Acad. Sci.), Ph.D.(McG.), F.R.S.C.
N. Luedtke; B.Sc.(Wash.), M.Sc., Ph.D.(Calif. -San Diego)
J. Mauzeroll; B.Sc.(McG.), Ph.D.(Texas-Austin)
N. Moitessier; M.Sc., Ph.D.(Nancy)
D. Perepichka; B.Sc.(Donetsk, Ukraine), Ph.D.(Nat. Aca. Sci., Ukraine)
D.M. Ronis; B.Sc.(McG.), Ph.D.(MIT)
H. Sleiman; B.Sc.(Beirut), Ph.D.(Stan.)
Y.S. Tsantrizos; B.Sc., M.Sc., Ph.D.(McG.)
T.G.M. van de Ven; Kand. Doc.(Utrecht), Ph.D.(McG.)
P. Wiseman; B.Sc.(St. FX), Ph.D.(UWO)

Associate Professors
A.S. Blum; B.A.(Princ.), Ph.D.(Wash.)
J.L. Gleason; B.Sc.(McG.), Ph.D.(Virg.)
P. Kambhampati; B.A.(Carleton Coll.), Ph.D.(Texas-Austin)
J.-P. Lumb; B.Sc.(Cornell), Ph.D.(Calif., Berk.)
A. Mittermaier; B.Sc.(Guelph), Ph.D.(Tor.)
N. Moitessier; M.Sc., Ph.D.(Nancy)
A. Moores; B.Sc., Ph.D.(École Poly., France)
L. Reven; B.A.(Carleton Coll.), Ph.D.(Ill.)
B. Siwick; B.A.Sc., M.Sc., Ph.D.(Tor.)

Assistant Professors
M. Harrington; B.A.(Delaware), Ph.D.(Calif., Santa Barbara)
R. Khaliullin; B.S.(INEOS RAS, Moscow), M.S.(Mendeleev Univ., Moscow), Ph.D.(Calif., Berk.)
E. McCalla; B.Sc.(Mt. All.), M.Sc.(McG.), B.Ed.(Nfld.), Ph.D.(Dal.)
M. McKeague; B.Sc., Ph.D.(Car.)
T. Preston; B.Sc.(Tor.), M.Sc.(UWO), Ph.D.(Br. Col.)
C.J. Thibodeaux; B.Sc.(LSU), Ph.D.(Texas)
L. Simine; B.Sc.(Tor.), Ph.D.(Tor.)

Adjunct Professors
I. Wharf; B.Sc., Ph.D.(Imperial Coll.) R. Zamboni; B.Sc., Ph.D.(McG.)

Faculty Lecturers
L. Pavelka; B.Sc., Ph.D.(UWO)
S. Sewall; B.Sc., Ph.D.(McG.)
P. Sirjoosingh; B.Sc., M.Sc.(Dehli), Ph.D.(Penn St.)

15.12.3.5 Master of Science (M.Sc.) Chemistry (Thesis) (45 credits)

Thesis Courses

(24-31 credits)

At least 24 credits chosen from the following:

CHEM 691	(3)	M.Sc. Thesis Research 1
CHEM 692	(6)	M.Sc. Thesis Research 2
CHEM 693	(9)	M.Sc. Thesis Research 3
CHEM 694	(12)	M.Sc. Thesis Research 4
CHEM 695	(15)	M.Sc. Thesis Research 5
CHEM 697	(9)	M.Sc. Thesis Research 7
CHEM 698	(12)	M.Sc. Thesis Research 8

Required Courses

(5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2

CHEM 688	(3)	Progress Assessment 1

Complementary Courses

(9-16 credits)

Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.

15.12.3.6 Doctor of Philosophy (Ph.D.) Chemistry

Thesis

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

Required Courses

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Progress Assessment 1
CHEM 701	(0)	Comprehensive Examination
CHEM 702	(0)	Progress Assessment 2

Complementary Courses

Students entering the program with an M.Sc. degree will normally take three (3) graduate-level courses. Students entering without an M.Sc. degree will normally take five (5) graduate-level courses.

Students may be required to take advanced undergraduate courses if background deficient.

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 coursework and research. In the basic M.Sc. programs, students must choose between the thesis option, and the non-thesis option, which requires a project. The Ph.D. and M.Sc. programs both include an option in bioinformatics. Students are normally funded by their adviser's research grants; in the case of scholarship students, this typically takes the form of a 'top-up' to the scholarship. Research in the School covers a broad range of areas, including:

- **Theory**: algorithms, combinatorial optimization, computational geometry, cryptography, graph theory, logic and computation, programming languages, quantum computing, theory of computation, and scientific computing;
- **Systems**: compilers, computer games, distributed systems, embedded and real-time systems, modelling and simulations, networks, and software engineering;
- **Applications**: bioinformatics, machine learning, robotics, computer animation, graphics, and vision.

All students must consult the *graduate program website*, where up-to-date information about the graduate programs is posted. Any questions concerning programs should be addressed to the *Graduate Program Coordinator*.

section 15.12.4.5: Master of Science (M.Sc.) Computer Science (Thesis) (45 credits)

This program is designed for students with a strong interest in research in computer science who hold at least the equivalent of an undergraduate minor in CS. This program combines a strong course component with a research thesis. It is the usual (but not mandatory) entry point for students who wish to do a Ph.D., but is also the program of choice for students who want to find challenging and exciting jobs after their master's.

section 15.12.4.6: Master of Science (M.Sc.) Computer Science (Thesis): Bioinformatics (45 credits)

Bioinformatics research lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The intention of the Bioinformatics option is to train students to become researchers in this interdisciplinary field. This includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms and statistics.

section 15.12.4.7: Master of Science (M.Sc.) Computer Science (Non-Thesis) (45 credits)

This program is designed for students who want to obtain broad knowledge of advanced topics in computer science but without the requirement of a thesis. It offers an excellent preparation for the job market, but is not recommended for students interested in eventually pursuing a Ph.D.

section 15.12.4.8: Doctor of Philosophy (Ph.D.) Computer Science

The Ph.D. program trains students to become strong, independent researchers in the field of their choice. Our graduates take challenging positions in industry or take academic positions at universities and research labs. In order to apply to the Ph.D. program, applicants should normally hold a master's degree in Computer Science or a closely related area, from a well-recognized university, but exceptional students can be admitted to the Ph.D. program directly without a master's degree.

section 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*

Associate Professors

X.-W. Chang; B.Sc., M.Sc.(Nanjing), Ph.D.(McG.)

C. Crépeau; B.Sc., M.Sc.(Montr.), Ph.D.(MIT)

H. Hatami; B.Sc.(SUT, Tehran), M.Sc., Ph.D.(Tor.)

B. Kemme; B.Sc., M.Sc.(Erlangen-Nuremberg, Germany), Ph.D.(ETH, Zurich)

J. Kienzle; Eng.Dip., Ph.D.(EPFL)

P. Kry; B.Sc.(Wat.), M.Sc., Ph.D.(Br. Col.)

M. Langer; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(McG.)

M. Maheswaran; B.Sc.(Peradeniya), M.Sc., Ph.D.(Purd.)

B. Pientka; B.Sc., M.Sc.(TU Darmstadt), Ph.D.(Carn. Mell)

J. Pineau; B.A.Sc.(Wat.), M.Sc., Ph.D.(Carn. Mell) (*William Dawson Scholar*)

D. Precup; B.Sc.(Tech. U. of Cluj-Napoca), M.Sc., Ph.D.(Mass.)

D. Ruths; B.Sc., M.Sc., Ph.D.(Rice)

C. Verbrugge; B.A.(Qu.), Ph.D.(McG.)

J. Waldispuhl; B.Sc.(Nice Sophia Antipolis), M.Sc.(Paris VII), Ph.D.(École Poly., France)

Assistant Professors

J. Cheung; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)

C. Dubach; M.Sc.(EPFL), Ph.D.(Edin.)

D. Meger; B.Sc.(Br. Col.), M.Sc.(McG.), Ph.D.(Br. Col.)

J. Guo; B.Sc., M.Sc.(Xian Jiaotong, China), Ph.D.(Notre Dame)

W.L. Hamilton; B.Sc., M.Sc.(McG.), Ph.D.(Stan.)

Y.Li; B.Sc.(Sask.), M.Sc., Ph.D.(Tor.)

H.C. Lin; B.Sc.(Calif. St.), M.Sc.(Alta.), Ph.D.(Edin.)

E. Patitsas; B.Sc.(Br. Col.), M.Sc., Ph.D.(TCTj1 0 0 1T. 4ssi0 27e Pr

Associate Members

R. Sieber (*MSE & Geography*)

Adjunct Professors

M.G. Bellemare, T. Glatard, G. Gordon, N. Le Roux, A. Louis, B. Shepherd, A.R. Soriano, D. Tarlow, A. Trischler

15.12.4.5 Master of Science (M.Sc.) Computer Science (Thesis) (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(3)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(10)	Thesis Research 4
COMP 699	(12)	Thesis Research 5

Required Course

COMP 601	(2)	Thesis Literature Review

Complementary Courses (21 credits)

At least 21 credits of 500-, 600-, or 700-level COMP courses, including at least 12 credits of 4-credit courses.

BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophysics

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate's supervisor.

Note: Students with an appropriate background can substitute 4 credits by COMP 697.

15.12.4.7 Master of Science (M.Sc.) Computer Science (Non-Thesis) (45 credits)

Research Project (15 credits)

15 credits selected as follows:

COMP 693	(3)	Research Project 1
COMP 694	(6)	Research Project 2
COMP 695	(6)	Research Project 3

Complementary Courses (30 credits)

30 credits (nine courses), of which 12 credits must be of 4-credit courses at the 500, 600, or 700 level of COMP courses.

15.12.4.8 Doctor of Philosophy (Ph.D.) Computer Science

Required coursework: Students must take eight graduate courses, of which at least five are computer science courses. These courses should be chosen by the student in consultation with the supervisor (or co-supervisor) and the Progress Committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly or academiifi1500.524 370.523 Txch pclusmic ams fpublicultatirk in t

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
	Algorithms	Probabilistic Analysis of Algorithms

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

Required Courses

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
COMP 700	(0)	Ph.D. Comprehensive Examination
COMP 701	(3)	Thesis Proposal and Area Examination

Complementary Courses

Two courses chosen from the following:

BINF 621	(3)	Bioinformatics: Molecular Biology

- geomicrobiology
- wetland hydrogeology;
- interactions between the cryosphere, solid Earth, and climate systems;
- planetary-scale ocean biogeochemistry (e.g., ocean acidification) and its relationship to global warming.

There is a very substantial interdisciplinary basis to much of the research.

Facilities in the Department include low-temperature and pressure to high-temperature and pressure experimental laboratories, a stable-isotope mass spectrometer, laser-ablation ICP-MS, and electron microprobe, as well as atomic absorption spectrometers. Our students also make substantial use of other facilities at McGill and at nearby *Université du Québec à Montréal*.

Financial assistance is available in the form of teaching assistantships, research assistantships, and scholarships.

Areas of Research :

Aquatic Geochemistry

Application of chemical thermodynamics, kinetics, and surface chemistry to the characterization of mineral-solution interactions in aquatic environments; carbonate geochemistry; early diagenesis of marine and coastal sediments; trace metal and environmental geochemistry in freshwater and marine systems.

Biogeochemistry

Response of the marine ecosystem to climate change and anthropogenic stresses through observations of the modern ocean, and experimental and numerical simulations of ocean biogeochemistry. Reconstructions of past climate change using sediments from lacustrine, coastal, and marine sediments. The processes controlling carbon cycling in freshwater environments, including the burial of organic matter in sediments and the production of greenhouse gases through microbial respiration. Development of new isotopic methods for tracing carbon-cycle and hydrological change in the past and present. Investigating the dynamical relationships that link climate, biogeochemical cycles, ecosystems and humans using a combination of large datasets, simple theory and numerical Earth system models to identify novel processes and quantitative relationships.

Economic Geology

Studies of the genesis of hydrothermal mineral deposits through a combination of field-based, experimental, and theoretical methods. Research focuses on the understanding of physico-chemical controls of mineralization, through geological mapping of deposits; experimental studies of metal solubility and speciation in hydrothermal systems; simulations of hydrothermal alteration; and theoretical studies designeb19 lar

Petrology and geochemistry of intermediate and felsic magmas; understanding physical processes and forecasting eruptions at active subduction-zone volcanoes; geochemistry of volcanic gases, their use for eruption prediction, and their impact on the atmosphere.

section 15.12.5.5: Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis) (45 credits)

The nature of graduate research in the Department of Earth and Planetary Sciences is highly variable. As a result, students may enter the graduate program with backgrounds in earth sciences, chemistry, or physics, depending on their research interests and the supervisor with whom they wish to work. Students pursuing an M.Sc. are required to take four courses, but their major project is an M.Sc. thesis that typically results in a journal publication. Research for the thesis typically begins in the first year of residence and is completed, together with the written results, in the second year of residence.

Students graduating from the program typically proceed to a Ph.D. or work in the mineral exploration or petroleum industries. Excellent students admitted into the M.Sc. program can be “fast-tracked” from the M.Sc. into the Ph.D. program at the end of the first year if suitable progress has been demonstrated. Such students are required to take a minimum of 18 credits of coursework in total, and a comprehensive oral examination before the end of 18 months in the Ph.D. program.

: Master of Science (M.Sc.) Earth and Planetary Sciences (Thesis): Environment (48 credits)

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students that have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the *McGill School of Environment* (MSE), in partnership with participating academic units.

section 15.12.5.6: Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences

The nature of graduate research in the Department of Earth and Planetary Sciences is highly variable. As a result, students may enter the graduate program with backgrounds in earth sciences, chemistry, or physics, depending on their research interests and the supervisor with whom they wish to work. Ph.D. students typically enter with an M.Sc., in which case they are required by our regulations to take only two courses, although a supervisor may require more, depending on the suitability of the student’s background. In addition to courses, Ph.D. students commence work on the thesis research project, including preparation for an oral examination on their research proposal before the end of 18 months from starting the program. Conduct of the research, and preparation of the results, for thesis and publication, typically takes three additional years. Students entering the Ph.D. program without an M.Sc. are required to take a full year of courses before embarking on the processes described above.

Students graduating from our Ph.D. program pursue careers in universities and government-funded research institutes, and in the mineral-exploration and petroleum industries.

: Doctor of Philosophy (Ph.D.) Earth and Planetary Sciences: Environment

The graduate option in Environment provides students with an appreciation for the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students that have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the *McGill School of Environment* (MSE), in partnership with participating academic units.

15.12.5.3 Earth and Planetary Sciences Admission Requirements and Application Procedures

15.12.5.3.1 Admission Requirements

Applicants should have an academic background equivalent to that of a McGill graduate in the Honours or Majors program in geology, geophysics, chemistry, or phM-0.475 250.58eepc unitten resfielde research ining yefore t1 0 0 1 70.52 617.36 Tm(os t1-0.149Inomimej1 0rmal Qualifyc unrses or abby our re)Tf1 0 0 1 103.657 27

Faculty Lecturer

W. Minarik; B.A.(St. Olaf), M.Sc.(Wash.), Ph.D.(Rensselaer Poly.)

Adjunct Professors

R. Harrington; B.Sc., M.S., Ph.D.(Calif.-LA), R. Léveillé

- Environment and Development;
- Geographic Information Systems and Remote Sensing;
- Land Surface Processes, Ecosystem Biogeochemistry, and Ecoh

section 3.12.9.13: Doctor of Philosophy (Ph.D.) Geography: Neotropical Environment

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Ph.D. students offered in association with several university departments, the *McGill School of Environment*, and the *Smithsonian Tropical Research Institute* (STRI-Panama) and includes the thesis; comprehensive examination; required courses in Geography, Environment, and Biology; and complementary courses chosen from Geography, Agriculture Sciences, Biology, Sociology, Environment, and Political Science. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Geograph

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

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Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Courses (9 credits)

BIOL 640	(3)	Tropical Biology and Conservation
ENVR 610	(3)	Foundations of Environmental Policy
GEOG 631	(3)	Methods of Geographical Research

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Course (3 credits)

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

15.12.6.8 Doctor of Philosophy (Ph.D.) Geography

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student'

GEOG 700	(0)	Comprehensive Examination 1
GEOG 701	(0)	Comprehensive Examination 2
GEOG 702	(0)	Comprehensive Examination 3

Complementary Courses (9 credits)

3-6 credits chosen from:

ENVR 610	(3)	Foundations of Environmental Policy
ENVR 614	(3)	Mobilizing Research for Sustainability

0-3 credits chosen from:

ENVR 585	(3)	Readings in Environment 2
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or 3 credits at the 500 level or higher recommended by he Advisory Committee and approved by the Environment Option Committee.

0-3 credits of Geography course at the 500 level or higher selected according to the guidelines of the Department.

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 w

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

Required Courses

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

The *Department's website* provides extensive information on the Department and its facilities, including the research activities and research interests of individual f

15.12.7.3 Mathematics and Statistics Admission Requirements and Application Procedures

15.12.7.3.1 Admission Requirements

In addition to the general Graduate and Postdoctoral Studies requirements, the Department requirements are as follows:

Master's Degree

The normal entrance requirement for the master's programs is a Canadian honours degree or its equivalent, with high standing, in mathematics or a closely related discipline in the case of applicants intending to concentrate in statistics or applied mathematics.

Applicants wishing to concentrate in pure mathematics should have a strong background in linear algebra, abstract algebra, and real and complex analysis.

Applicants wishing to concentrate in statistics should have a strong background in linear algebra and basic real analysis. A calculus-based course in probability and one in statistics are required, as well as some knowledge of computer programming. Some knowledge of numerical analysis and optimization is desirable.

Applicants wishing to concentrate in applied mathematics should have a strong background in most of the areas of linear algebra, analysis, differential equations, discrete mathematics, and numerical analysis. Some knowledge of computer programming is also desirable.

Students whose preparation is insufficient for the program they wish to enter may, exceptionally, be admitted to a Qualifying year.

Ph.D. Degree

A master's degree with high standing is required, in addition to the requirements listed above for the master's program. Students may transfer directly from the master's program to the Ph.D. program under certain conditions. Students without a master's degree, but with exceptionally strong undergraduate training, may be admitted directly to Ph.D. 1.

15.12.7.3.2 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* > *section 1.4.3: Application Procedures* for detailed application procedures.

15.12.7.3.2.1 Additional Requirements

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

- Personal Statement – In the personal statement, the applicants should clearly explain their choice of preferred research group(s) and preferred area(s) of research, as well as providing relevant information that will not be reflected on their transcripts
- Research Proposal (optional) – If applicants have a specific research problem of interest that they want to pursue, they may discuss the details in the research proposal
- Applicants in pure and applied mathematics should provide a GRE Tmiscus pure and app.3ports if94.345 496.08 38al) –hej/F1 8.1)

Emeritus Professors

William J. Anderson; B.Eng., Ph.D.(McG.)

Michael Barr; A.B., Ph.D.(Penn.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)

William G. Brown; B.A.(Tor.), M.A.(Col.), Ph.D.(Tor.)

Marta Bunge; M.A., Ph.D.(Penn.)

Ian Connell; B.Sc., M.Sc.(Manit.), Ph.D.(McG.)

Kohur N. GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)

Paul Koosis; B.A., Ph.D.(Calif., Berk.)

Michael Makkai; M.A., Ph.D.(ELTE) (*Peter Redpath Professor of Pure Mathematics*)

Sherwin Maslowe; B.Sc.(Wayne), 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.(Okla.)

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.(SBU, Iran), 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. (*Distinguished James McGill Professor*)

Christian Genest; B.Sp.Sc.(UQAC), M.Sc.(Montr.), Ph.D.(Br. Col.) (*Canada Research Chair*)

Eyal Z. Goren; B.A., M.S., Ph.D.(Hebrew)

Adjunct Professors

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.(JXNU), 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.)

Maksym Radziwill; B.Sc.(McG.), Ph.D.(Stan.)

Robert A.G. Seely; B,Sc.(McG.), Ph.D.(Camb.)

F. Bruce Shepherd; B.Sc.(Vic., Tor.), M.Sc., Ph.D.(Wat.)

Armen Shirikyan; M.Sc., Ph.D.(Moscow St.); Habilitation(Paris-Sud XI)

Pedro A. Valdes-Sosa; B.Sc.(Havana), Ph.D.(National Center for Scientific Research, Cuba)

Johannes Walcher; Dip., Ph.D.(ETH Zurich) (*joint appt. with Physics*)

Senior Faculty Lecturer

Axel Hundemer; M.Sc., Ph.D.(Munich)

Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)

Faculty Lecturers

Rosalie Bélanger-Rioux; B.Sc.(McG.), Ph.D.(MIT)

José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)

Jérôme Fortier; B.Sc., M.Sc.(Laval), Ph.D.(UQAM)

Jeremy Macdonald; B.Sc., M.Sc.(Alta.), Ph.D.(McG.)

Sidney Trudeau; Ph.D.(McG.)

15.12.7.5 Master of Science (M.Sc.) Mathematics and Statistics (Thesis) (45 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Complementary Courses (21 credits)

At least six approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

15.12.7.6 Master of Science (M.Sc.) Mathematics and Statistics (Thesis): Bioinformatics (48 credits)

Thesis Courses (24 credits)

MATH 600	(6)	Master's Thesis Research 1
MATH 601	(6)	Master's Thesis Research 2
MATH 604	(6)	Master's Thesis Research 3
MATH 605	(6)	Master's Thesis Research 4

Required Course (3 credits)

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

Complementary Courses (21 credits)

6 credits from the following:

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

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

15.12.7.7 Master of Science (M.Sc.) Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)

MATH 640	(8)	Project 1
MATH 641	(8)	Project 2

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

15.12.7.8 Doctor of Philosophy (Ph.D.) Mathematics and Statistics

Thesis

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

Required Courses

MATH 700	(0)	Ph.D. Comprehensive Examination Part A
MATH 701	(0)	Ph.D. Comprehensive Examination Part B

Complementary Courses (21 credits)

Minimum 21 credits of approved graduate courses, with at least two courses at the 600-level or above.

15.12.7.9 Doctor of Philosophy (Ph.D.) Mathematics and Statistics: Bioinformatics

Thesis

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

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
MATH 700	(0)	Ph.D. Comprehensive Examination Part A

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 extensivxtensi

- nuclear methods to study interactions in magnetic materials that lead to exotic magnetic ordering behaviour. This includes studies of nov

Financial Assistance

Financial assistance will be of

Post-Retirement Professors

Z. Altounian; Ph.D.(McM.)

F. Buchinger; Ph.D.(JGU, Mainz)

Professors

R. Brandenberger; Dip.(ETH Zurich), 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 Zurich) (*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.(SNU, S. Korea), 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.A., M.A.(Camb.), Ph.D.(McG.)

A. Maloney; B.S., M.S.(Stan.), Ph.D.(Harv.)

N. Provatas; Ph.D.(McG.) (*Canada Research Chair*)

K. Ragan; B.Sc.(Alta.), Ph.D.(Geneva) (*Macdonald Professor of Physics*)

D.H. Ryan; B.A., Ph.D.(Dub.)

P. Wiseman; B.Sc.(St. FX), Ph.D.(UWO) (*joint appt. with Chemistry*)

Associate Professors

H. Cynthia Chiang; B.Sc.(Ill.-Urbana-Champaign), Ph.D.(Caltech)

L102)WW(38.102)Ph.D.(Harv.) (*Canada Research Chair*)

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Associate Professors

T. Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

Assistant Professors

K. Agarwal; B.Tech(IIT Kanpur), Ph.D.(Harv.)

T. Brunner; Dip., Ph.D.(TUM)

S. Caron-Huot; B.Sc.(Laval), M.Sc., Ph.D.(McG.)

D. Haggard; B.A.(St. John's), M.Sc.(SF State), Ph.D.(Wash.)

E. Lee; B.Sc., M.Sc.(Tor.), M.A., Ph.D.(Calif., Berk.)

A. Liu; B.A.(Princ.), Ph.D.(MIT)

Associate Members

G. Bub (*Physiology*)

M. Chacron (*Physiology*)

S. Devic (*Oncology*)

S. Enger (*Oncology*)

K. Gehring (*Biochemistry*)

P. Kambhampati (*Chemistry*)

A. Khadra (*Physiology*)

J. Kildea (*Medical Physics*)

D. Rassier (*Kinesiology*)

D. Ronis (*Chemistry*)

J. Seuntjens (*Medical Physics*)

T. Szkopek (*Electrical and Computer Engineering*)

Adjunct Professors

O. Hernandez,A. Najafi-Yazdi, B. Palmieri, M. Pearson, V. Tabard-Cossa, W. Witczak-Krempa

Curator (Rutherford Museum and McPherson Collection)

J. Barrette

15.12.8.5 Master of Science (M.Sc.) Physics (Thesis) (45 credits)

Thesis Courses (30 credits)

PHYS 690	(24)	M.Sc. Thesis
PHYS 692	(6)	Thesis Project

Complementary Courses (15 credits)

12 credits at the 500, 600, or 700 level.

3 credits at the 600 or 700 level:

Students with an appropriate background may request Departmental permission to substitute up to 6 credits chosen from the following courses:

PHYS 691	(3)	Thesis Preparation
PHYS 693	(3)	M.Sc. Research

Students must also successfully complete all the other normal requirements of Graduate and Postdoctoral Studies.

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 kno

Ph.D. Option in Behavioural Neuroscience

Information about this option is available from the Department and at *www.mcgill.ca/psychology/graduate/program-tracks*.

Ph.D. Option in Language Acquisition (LAP)

Information about this option is available from the Department and at *www.psych.mcgill.ca/lap.html* and *www.mcgill.ca/psychology/graduate/program-tracks/experimental/additional-program-opportunities*.

Ph.D. Option in Psychosocial Oncology (PSO)

A cross-disciplinary option in Psychosocial Oncology is offered within the existing Ph.D. program in Psychology. Information about this option is available from the Department and at *www.medicine.mcgill.ca/oncology/programs/programs_psychosocialoncology.asp* and *www.mcgill.ca/psychology/graduate/program-tracks/clinical/additional-program-opportunities*.

Arts* > Graduate > Browse Academic Units & Programs > Psychology > *section 3.12.20.5: Master of Arts (M.A.) Psychology (Thesis) (45 credits)

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

Science* > Graduate > Browse Academic Units & Programs > Psychology > *section 15.12.9.5: Master of Science (M.Sc.) Psychology (Thesis) (45 credits)

Candidates must demonstrate a sound knowledge of modern psychological theory, of its historical development, and of the logic of statistical methods as used in psychological research. Candidates will be expected to have an understanding of the main lines of current work in areas other than their own field of specialization.

section 3.12.20.6: Doctor of Philosophy (Ph.D.) Psychology

Please contact the Department for more information about this program.

section 15.12.9.7: Doctor of Philosophy (Ph.D.) Psychology: Behavioural Neuroscience

The Ph.D. in Psychology: Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise, the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes.

section 15.12.9.8: Doctor of Philosophy (Ph.D.) Psychology: Language Acquisition *Tm(52 jun80.36 4 TmisitiInuisitSandoary pNursics,ease contact the Tm(y are*

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

section 15.12.9.9: Doctor of Philosophy (Ph.D.) Psychology: Psycse17.08ons in eithe7uw12.9.8

Applicants should note that the deadline for man

Emeritus Professors

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.(TWCU.), 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.(UWO)

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 St.), 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*)

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 Neuropsychology96 Tm(Canada Resear)Tj9t95.99Y/F2(T0.52 6783(K.B.*

Assistant Professors

J. Axt; B.A.(Duke), M.A., Ph.D.(Virg.)

R. Bagot; B.Sc.(UNSW), Ph.D.(McG.)

J. Britt; B.A.(Colo.), Ph.D(Balt.)

C. Falk; B.Sc.(Wisc. Madison), 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.)

B. Johns; BCP(Qu.), Ph.D.(Ind.)

M. Miocevic; B.A., M.A., Ph.D.(Ariz. St.)

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

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. Spreng, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, F. Elgar, M. Leyton

Adjunct Professors

S. Harnad, P. Zelazo

15.12.9.5 Master of Science (M.Sc.) Psychology (Thesis) (45 credits)

Thesis Courses (27 credits)

PSYC 690	(15)	Masters Research 1
PSYC 699	(12)	Masters Research 2

Required Courses (18 credits)

PSYC 601	(6)	Master's Comprehensive
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	Psychology Theory
PSYC 660D2	(3)	Psychology Theory

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
		AdvAdv

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

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

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.(On Natur

Associate Professors

Hans C.E. Larsson; B.Sc.(McG.), Ph.D.(Chic.)

Virginie Millien; Maîtrise(Paris VI), DEA, Ph.D.(Montp.)

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